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Role of ICT in Our Life



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Theme 2

Digital Safety and Security Precautions



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Role of ICT in Cour Life



Theme Lessons:

Lesson | Explorer in Action

Lesson (2) Computer Network Devices

Spotlight on Theme

In this theme, you will learn about the mechanisms to deal with ICT (Information and Communication Technology) in order to cope with the latest technological developments.

This includes identifying the operating systems for devices, such as mobile devices and PCs.

You will also create the concept and plan a website that promotes a cutting-edge assistive technology product.



Explorer in Action

Just for Read

Mr. Kartik Sawhney

- Mr. Kartik Sawhney is a National Geographic Explorer and a computer expert.
- >>> He uses technology to empower people of determination.
- >>> He earned his Bachelor's and Master's degrees in Computer Science at Stanford University, California, in the USA.
- >> His studies focused on:
 - 1 Artificial intelligence (Al).
 - 2 Human-computer interaction.
 - السيِّد كارتيك ساوهني هو مُستكشف نَشِط في ناشونال جيوجرافيك، وهو خبير بالكمبيوتر.
 - يستخدم ساوهني التكنولوجيا لتمكين الأشخاص من ذوي الهمم.
 - حصل على شهادتَي البكالوريوس والماجستير في علوم الكمبيوتر من جامعة ستانفورد بكاليفورنيا في الولايات المتحدة الأمريكية.
 - وقد ركَّزت دراسته على الذكاء الاصطناعي والتفاعل بين الإنسان وأجهزة الكمبيوتر.
- >>> Mr. Sawhney creates applications that provide access to visual content for the blind and visually impaired.
- His app converts graphs into audio frequencies, allowing the listener to hear the difference in information in the graph.
 - يبتكر السيِّد ساوهني تطبيقات تسمح للأشخاص المكفوفين وضعاف البصر بالوصول إلى المحتوى المرئي.
- يقوم تطبيقه بتحويل الرسوم البيانية إلى تردُّدات صوتية؛ مما يسمح للمستمع أن يسمع الاختلاف في المعلومات بالرسم البياني.



How does Mr. Sawhney help people of determination



- >> There are over one billion people of determination worldwide. To help them, Mr. Sawhney co-founded istemai.com.
- >> I-Stem (istemai.com): It's a platform that provides software that changes digital texts into a format that can be easily used by the blind and visually impaired.
- 1 A person who can't read a text might upload that text to the I-Stem website.
- 2 The software converts the file into a Word document.
- 3 A few minutes later, the person receives the converted document and listens to the text using a screen reader, which automatically reads the text aloud.



- يوجد أكثر من مليار شخص من ذوى الهمَم حول العالم. ولكي يساعدهم شارك ساوهني في تأسيس I-Stem (استماعي).
- I-Stem: هي منَصَّة تُقدِّم برنامجًا يُغيِّر النصوص الرقمية إلى صيغة يمكن استخدامها من قبَل المكفوفين وضعاف البصر بسهولة.
 - 1-Stem يمكن للشخص الذي لا يستطيع قراءة النص أن يُحمِّل ذلك النص إلى موقع I-Stem.
 - و يُحوِّل البرنامج الملف إلى مستند ببرنامج Word.
- 3 بعد دقائق قليلة، يتلقَّى الشخص المستند المُحوَّل ويستمع إلى النصِّ باستخدام قارئ الشاشة الذي يقرأ النصَّ بصوت عال بصورة تلقائية.

Other benefits of I-Stem for people of determination:

- >> The I-Stem platform (istemai.com) also includes mentorship and employment opportunities for people of determination.
- >> This is achieved by working closely with governments, technical universities, and corporations.
- >> The platform is supported by UNICEF, Microsoft, and the National Geographic Society, among other partner organizations. This makes it easier for people of determination to access the services and venues of the organizations.
 - تتضمَّن منصَّة I-Stem أيضًا فُرَصًا للإرشاد والتوظيف للأشخاص من ذوى الهمّم.
 - ويتحقُّق ذلك من خلال العمل عن كَتُب مع الحكومات والجامعات التكنولوجية والمؤسَّسات.
 - المنصة مدعومة من اليونيسيف، ومايكروسوفت، ومجتمع ناشونال جيوجرافيك، بالإضافة إلى المنظَّمات الشريكة الأخرى، وهذا يُسهِّل على ذوى الهمَم الوصول إلى خدمات وأماكن المنظمات.







Volunteer mentors can help people of determination with: يوجد مدربون متطوعون يمكنهم مساعدة ذوى الهمّم في الآتي:

1 Resume writing 2 Job interviews preparation 3 Career-related questions RESUME (الأسئلة المُتعلِّقة بالعمل التحضير لمقابلات العمل كتابة السيرة الذاتية

Egypt's Efforts for People of Determination

- Egypt supports people of determination in many settings.
 - 1) To assist the visually impaired, the Taha Hussein Library in the New Bibliotheca Alexandrina has scanners with special software that converts printed text into audio.
 - 2 Scholarships and special opportunities are offered to gifted individuals, such as "The Miracle Child" Rania Saleh, who is a talented computer programmer with Down Syndrome.
 - 3 In 2022, Egypt launched several initiatives to empower Egyptians people of determination.
- >> These initiatives guide organizations to integrate employees of determination in the workforce and create job opportunities.
- In addition, the Ministry of Manpower is developing programs that educate and train people of determination for the job market.
 - تدعم مصر الأشخاص من ذوي الهمّم في العديد من الأماكن:
 - 1 مِن أجل مساعدة ضعاف البصر، تحتوي مكتبة طه حسين في مكتبة الإسكندرية على ماسحات ضوئية تتضمَّن برامج خاصة تُحوِّل النص إلى صوت.
- 🙋 يتم تقديم المنح والفرص الميزة للأفراد الموهوبين، مثل «الطفلة المعجزة» رانيا صالح، وهي مبرمجة كمبيوتر ماهرة مصابة بمتلازمة داون.
 - 🔞 في سنة ٢٠٢٢، أطلقت مصر عدَّة مبادرات لتمكين المواطنين المصريين من ذوي الهمم.
 - تُرشد تلك المبادرات المنظُّمات لدمج الموظفين من ذوي الهمم بالقوى العاملة وإنشاء فُرَص عمل لهم.
 - إضافة إلى ذلك، تُطوِّر وزارة القوى العاملة برامج لتعليم الأشخاص من ذوي الهمم وتدريبهم لسوق العمل.

Mobile Phone

- >> Using a mobile phone can be difficult for people with hearing-impaired people.
- >> there are apps that use speech-to-text technology to make communication by mobile phone easier.
- >>> Usually during calls, the hearing-impaired person talks whereas the other person only listens.
- >> Now there are apps that use voice recognition technology to change speech to text in real-time. The text appears while the person is talking.
- >>> If the hearing-impaired people have speech problems, they can type instead, The text is delivered to the other person as real speech.
- >> an example on these Apps is Rogervoice.
- >>> People with hearing impairments can download and use the app on their smartphones. However, the recipients of the calls are not required to install the app or even own a smartphone



- >>> Rogervoice has been downloaded by over 50.000 people worldwide.
 - قد يكون استخدام الهاتف المحمول أمرًا صعبًا بالنسبة للأشخاص الذين يعانون من ضعف السمع.
 - هناك تطبيقات تَستخدم تقنية تحويل الكلام إلى نص؛ لتسهيل الاتصال عبر الهاتف المحمول.
 - إذا كان الأشخاص ضعاف السمع يعانون من مشاكل في النطق، فيمكنهم الكتابة بدلاً من ذلك، ويتم تسليم النص إلى الشخص الآخر ككلام حقيقي.
 - يعتبر تطبيق Rogervoice مثالًا على هذه التطبيقات.
 - يمكن للأشخاص الذين يعانون من ضعف السمع تنزيل التطبيق واستخدامه على هواتفهم الذكية. ومع ذلك، غير مطلوب من متلقى المكالمات تثبيت التطبيق أو حتى امتلاك هاتف ذكى.
 - تم تنزيل Rogervoice من قبل أكثر من 50000 شخص حول العالم.

Role of ICT in Our Life

>> There are many websites and apps that help people of determination, such as:

1 accessnow.com

>>> It provides information and resources related to accessibility for people with disabilities.



• يُوفِّر المعلومات والموارد المتعلقة بإمكانية الوصول للأشخاص ذوى الإعاقة.

Bemyeyes.com

It is a website and mobile application that aims to connect blind or visually impaired people with sighted volunteers through video calls.





• هو موقع إلكتروني وتطبيق للهاتف المحمول يهدف إلى ربط المكفوفين أو ضعاف البصر مع المتطوعين المبصرين من خلال مكالمات الفندنو.

	Choose the correct ans	wer:	
1	Mr. Kartik Sawhney is a/an		
	a. explorer	b. computer expert	c. both of them
2	Mr. Sawhney co-founded	platform	to help people of
	determination.		
	a. I-Access	b. I-Stem	c. I-Determination
3	Mr. Kartik Sawhney uses ted	chnology to empower	·
	a. people of determination	b. computer engineers	c. students
4	Kartik Sawhney studies	in his Bach	nelor's and Master's
	degree.		
	 a. Computer Hardware 	b. Computer Science	c. Science
5	There are mobile apps that u	se techno	logy to help hearing-
	impaired people communica	ate easily.	
	 a. artificial intelligence 	b. speech-to-text	c. GPS
6	"The Miracle Child" Rania S	Saleh is a talented	with Down
	Syndrome.		
	a. doctor	b. explorer	c. programmer
7	Mr. Kartik Sawhney holds a	Master's degree in Co	mputer Science from
	University.		
	a. Cairo	b. Stanford	c. Chicago
8	Kartik Sawhney's studies foo	cused on	
	a. human-computer interacti		
	b. artificial intelligence		
9	The website		and employment
	opportunities for people		
	a.EKB	b. I-Stem	c. Facebook

10	Mr. Sawhney's app conver	ts graphs into	frequencies t	0
	allow the listener to hear the	difference in informati	on in the graph.	
	a. audio	b. video	c. text	
11	Mr. Sawhney develops appl	ications to help	people acces	s
	visual content.			
	a. blind& visually impaired	b. physically disabled	c. deaf	
12	Taha Hussein Library has a into audio.	special to	o convert printed tex	κt
	a. keyboard	b. scanner	c. printer	
13	app uses spe	ech-to-text technology	to assist people wit	h
	hearing impairments to com	municate easily using s	mart phones.	
	a. Derbitracker	b. WhatsApp	c. Rogervoice	
14	When blind and visually im	paired people upload	a text to the I-Stemo	iĸ
	platform, they can listen to the	he text using		
	a. braille terminal	b. screen readers		
	c. Screen magnification soft	ware		
F	Put (✓) or (✗):			
				_
1	Kartik Sawhney is a comput	er expert.	1)
2	Mr. Sawhney develops apps	s to help people of dete	rmination access	
	visual content.		1)
3	Kartik Sawhney earned his I	Master's degree from H	arvard University.	
)
4	Taha Hussein Library has pr	inters that convert printe	ed text into audio.	
			()
5	Mr. Sawhney develops an app	that converts graph to a	udio frequencies. ()
6	Kartik Sawhney studies Com	nputer Science and focu	ses on artificial	
	intelligence.	-	()
T.				

7 The Miracle Child" Rania Saleh" is a programmer with Down Syndrome.
8 The I-Stem platform includes employment opportunities for people of determination. ()
9 Mr. Sawhney cofounded that I-Stem platform to help people of
determination worldwide. ()
10 Egypt launched several initiatives to empower people of determination
and create job opportunities for them. ()
11 Kartik Sawhney is a computer expert who uses technology to teach
computer science. ()
12 The I-Stem platform works with governments, and technical universities
to support people of determination. ()
13 The Ministry of Manpower is developing programs that prepare people
of determination for the job market.
Complete the following sentences using the words between
the brackets:
(screen reader - I-Stem - Bemyeyes.com -
graph – Artificial Intelligence)
1 Mr. Kartik Sawhney studies focused on and Human-
1 Mr. Kartik Sawhney studies tocused on and Human- computer interaction.
computer interaction.
computer interaction. 2 The platform connects blind or visually impaired people
computer interaction. 2 The platform connects blind or visually impaired people with sighted volunteers through video calls.
 computer interaction. The platform connects blind or visually impaired people with sighted volunteers through video calls. Mr. Kartik Sawhney creates apps that allow people to hear the difference
 computer interaction. The
 computer interaction. The platform connects blind or visually impaired people with sighted volunteers through video calls. Mr. Kartik Sawhney creates apps that allow people to hear the difference

Lesson

Computer Network Devices

Networks

- >>> They are groups of people or things that are connected to each other for a common purpose.
 - تُمثِّل مجموعة من الأشخاص أو الأشياء المرتبطة ببعضها لهدف مشترك.



>>> Computers need different networks connection devices to transfer data, such as:

Modem

>> It is a device that connects a local area network (LAN) to the internet.



- >>> It converts and transforms the signal from the internet service provider (ISP) into a digital signal that can be read by devices.
 - هو حهاز نُوصِّل شبكة محلَّية (LAN) بالإنترنت .
 - يُحوِّل الإشارة من مزوِّد خدمة الإنترنت (ISP) إلى إشارة رقمية يمكن للأجهزة التعرُّف عليها.

Switches



- >> They can send data to a specific device over a network, which makes connections easier and faster.
- >> Switches are intelligent devices.
 - يمكنها إرسال بيانات إلى جهاز مُعيَّن عبر شبكة؛ وذلك يساعد في تيسير التواصل وإسراعه.
 - المحولات أجهزة ذكية.

Router

- >> As we studied in Grade 5,
 - It works as a gateway (Connect computers to the ISP).
 - It connects a modem to different networks.



- يعمل الراوتر بمثابة بوابة لتوصيل الكمبيوتر بمزود خدمة الإنترنت.
 - وهو يربط بين المودم ومختلف الشبكات.

Making Connections

>> There are two main ways to connect computers to a network:

1 Wired Networks

 They use physical wiring and cables which are plugged into holes on devices, called ports. • تستخدم الأسلاك والكابلات التي يتم توصيلها بفتحات في الأجهزة تُسمى المنافذ.

2 Wireless Networks

 They connect devices without wiring through wireless or Wi-Fi. • تقوم بتوصيل الأجهزة بدون أسلاك من خلال التوصيل اللاسلكي أو Wi-Fi.

Artificial Intelligence (AI)

- >>> It is computer applications that perform complex tasks that simulate the thinking and performance of the human element, such as the ability to learn and reason.
- >>> By providing these technologies with information, knowledge and possible answers to all possible questions, the machine can give answers to the data provided, such as
 - 1 Writing an article on a topic
 - Inquiring about historical events and their sequence.
- » Also, Al works to imitate sounds when provided with the tone of voice of an actual human being.
 - الذكاء الصناعي: يُقصد به تطبيقات الكمبيوتر التي تقوم بمهام معقدة تحاكي تفكير وأداء العنصر البشري، مثل القدرة على التعلم والاستدلال.
 - من خلال تزويد هذه التقنيات بالمعلومات والمعرفة والإجابات المحتملة لجميع الأسئلة المحتملة، يمكن للآلة تقديم إجابات للبيانات المقدمة، مثل:
 - 1 كتابة مقال حول موضوع ما.
 - الاستفسار عن الأحداث التاريخية وتسلسلها.
 - كما يعمل الذكاء الاصطناعي على تقليد الأصوات عندما يتم تزويده بنبرة صوت إنسان حقيقي.

	Line I		
4	Choose the correct a	nswer:	
	1 are group other.		hat are connected to each
	a. Modems	b. Networks	c. Routers
	2 perform(s) performance of people.	complex tasks that	simulate the thinking and
	a. Artificial intelligence	b. Holograms	c. Switches
	3 Computer networks are u	sed to	information and data.
	a. create	b. delete	c. share
	4 networks c	onnect devices using	Wi-Fi.
	a. Wired	b. Wireless	c. Both of them
	5 Wired networks connect	devices using	
	a. Wi-Fi	b. radio waves	c. cables
	6is a device	that connects a local	area network (LAN) to the
	internet.		
	 a. Artificial intelligence 	b. Modem	c. Server
	7 Al is an abbreviation for		
	a. Automated Intelligencc. Artificial Intelligence	e b . Advanced Inn	ovation
	8 device over a network.	ent devices that pas	s information to a specific
	a. Switches	b. Hubs	c. Modems
	9 A converts (ISP) into a digital signal.		internet service provider
1 8	a. modem	b. router	c. switch
	10 can imitate	sounds when provide	ded with the tone of voice

b. Artificial intelligence c. Switches

a. A modem

of an actual human being.

Put	(/)	or	(X)
	'		· /

 Networks are groups of people or things that are connected to each other
2 Wireless networks connect devices with physical wiring and cables. (
3 There is only one way to connect computers to a network, using cables.
4 Computers don't need network connection devices to transfer data.
5 Artificial intelligence can imitate the sounds of people. (
6 Switches are intelligent devices.
7 Modem is a device that converts the signal from ISP into a digital signal.
8 A modem sends data to a specific device on the network.
9 Wired networks use physical cables which are plugged into ports. (
10 Switches direct data to specific devices, making connections easier and faster.
11 We can connect devices to a network without wiring.
12 A router works as a gateway that connects a computer to an internet service provider (ISP).

Complete the following sentences using the words between the brackets:

(intelligent - router - specific - Wired - AI)

- 1 networks connect devices using cables.
- 2 Switches send data to a(an) device on the network.
- 3 A works as a gateway to connect devices to the internet.
- 4 Switches are devices.
- 5 can imitate sounds of people by providing a tone of actual people.



Column (A)	Column (B)
1 AI	a. connects a modem to different networks.
2 A router	b. are groups of people or things that are connected together.
3 A switch	c. is a hole on devices where cables are plugged in.
4 Networks	d. computer applications that simulate the thinking and performance of people.
5 A port	e. is an intelligent device that send data to a specific device on the network.



Read the sentences and name the device:

This item	What am 1?
① connects a network to another network. You need it to connect any device to the Internet.	
2 sends data to a specific device over a notwork.	
3 sends data to all wired devices connected to it.	
is the part of a computing device available for connection with input (e.g., a keyboard, or a mouse) and output devices (e.g., speakers, a printer).	
5 is a computer which provides services to other computers. There are many different types, but a common function is to store audio files, video files, documents, and many other file types.	
6 allow wired devices to connect to a network and pass information to all the devices on that network.	

Think about the network equipment you will need for the following scenarios and create a computer network for each one. Draw and label the networks.

Hub Modem Network cable Router Server Switch

- 1 Fares wants to connect his laptop to his parent's desktop computer.
- 2 Mrs. Gamal's ICT classroom has ten PCs and wants everyone to be able to access all files, even when one computer is turned off.
- Severyone in Mostafa's football team needs to access the Internet to play online multi-player football games.

Lesson 3

Futuristic Technology

Augmented reality, virtual reality, and artificial intelligence (AI) feel futuristic, but they are already being used in education and everyday life. ويدو أن الواقع المُعزَرُ (AR) والواقع الافتراضي (VR) والذكاء الاصطناعي (AI) أنواع من التكنولوجيا المستقبلية، لكن يتم استخدامها بالفعل في التعليم والحياة اليومية.

Augmented Reality (AR)

- Augmented reality (AR) combines the real world with a virtual world by adding computer-generated images.
- This can be done through the camera of a smartphone or a tablet and will show a 3D model of what looks like the real world.

 بجمم الواقع المُعزَّرُ بين العالم الحقيقي والواقع الاعتراضي بإضافة صور مُولِّدة بالكمبيوتر.
- يمكن فعل ذلك بواسطة كاميرا الهاتف الذكي أو جهاز لوحي، وهذا سيعرض نموذجًا ثلاثي الأبعاد لما يشبه العالم الحقيقي.

For example

- In a math class, students can use their smartphone camera to project 3D images of shapes like cubes or cylinders onto a flat surface, making it appear as if the shapes are in front of them.
- In a science class, students can use a sky map app to point at the night sky and see a digital layer of labeled stars, planets, and nebulae.
- AR helps students become active participants in learning and makes learning more memorable.





- فعل سبيل المثال: في حصة الرياضيات، يمكن للطلاب استخدام كاميرا هواتفهم الذكية لعرض صور ثلاثية الأبعاد الأشكال مثل المكعبات أو الأسطوانات على سطح مسطح؛ مما يجعلها تبدو وكأنها أمامهم.
- . ويمكن للتلاميذ في حصة العلوم أيضًا استخدام تطبيق الخرائط السماوية؛ لتوجيه الهاتف إلى السماء ليلًا ورؤية طبقة رقمية من النجوم والكواكب والسُّدُم.
 - يساعد الواقع المُعزَّز التلاميذ ليصبحوا مشاركين نشطين في التعلُّم، ويجعل التعلُّم لا يُنسى.

ICT Prim. 6 - First Term Q 27

Explanatory Information

معلومات توضيحية إضافية خارج الكتاب المدرسي

- Augmented reality (AR) is a technology that adds digital images or information to the real world around you.
- For example, you can see a dinosaur walking around your living room, or the names of all the stars in the night sky.
- Another example is the game Pokémon Go, where you can catch Pokémon that appears in the real world through your phone's camera. - That's AR! It's like adding a layer of fun and imagination to the real world.

 - · AR works by using a device, such as a smartphone or tablet, to scan the real world. The device then uses this information to overlay digital information on top of the real world.

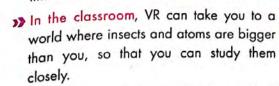
Virtual Reality (VR)

reality (VR)

It is a simulated 3D environment that allows users to explore and interact with the surroundings as if they were in reality. الواقع الافتراضي بيئة تخيلية ثلاثية الأبعاد تسمح للمُستخوِمين باستكشاف محيطهم والتفاعُل معه وكأنَّه حقيقة.



To experience VR, users often wear a VR headset that blocks out the real world and provides 360-degree views that immerse the user in another world.





Futuristic Technology

- >> It can take you to a museum thousands of miles away or to a historical site hundreds of years ago.
- A cardboard VR headset is an inexpensive way to experience VR using almost any smartphone.

NOTE:

 You can use the Egyptian Knowledge Bank to locate websites that include AR and VR experiences in Egypt.

- لتجربة الواقع الافتراضى، يرتدى المستخدمون غالبًا وسماعة رأس VR»؛ إذ تحجب عنهم الحياة الواقعية، وتوفر لهم إطلالات يزاوية ٢٦٠ درجة تجعل الستخدم ينغمس في عالم آخر.
- أما في غرفة الفصل، فيمكن أن يأخذك الواقع الافتراضي إلى عالم حيث الحشرات أو الذرات أكبر منك حجمًا؛ لتتمكّن من دراستها بعناية.
 - ممكن أيضًا من خلاله أن تزور متحفًا ببعد عنك آلاف الأميال، أو يأخذك إلى موقع أثرى قديم يعود لمئات السنين.
- إن «سماعة رأس VR» المصنوعة من الورق اللُّقوِّي، من الأدوات الرخيصة لتجربة الواقع الافتراضي، ويمكن استخدامها مع معظم أنواع الهواتف الذكية.





Explanatory Information

معلومات توضيحية إضافية خارج الكتاب المدرسي

An example of virtual reality (VR): Imagine you're studying ancient Egypt. With VR, you can feel like you're actually there in the Pyramids! You can see everything, like you're really inside the Pyramids. You can even hear sounds and feel like you're really there!

- VR is like playing a video game, but instead of just watching the screen, you can feel like you're really inside the game.
- VR works by using special equipment like a headset and gloves to see, hear, and touch things in this virtual world.

Artificial Intelligence (AI)

- >> It is the ability of a machine, such as a computer, to think and learn.
- >> A computer learns by analyzing the provided examples.
 - . الذكاء الاصطناعي هو قدرة آلة مثل الكمبيوتر على التفكير والتعلم.
 - . يتعلم الكمبيوتر من خلال تحليل الأمثلة المتوفرة له.

Example on using Al:

- A smartphone or email program predicts the next word you will type learns from the words you have typed before.
- 2 Al is used to unlock your phone with facial recognition.
- 3 Al is also used to personalize social media content and search results.
- Al runs in the background of programs, doing things such as:

 a. Filtering spam mail
 - b. Matching a passenger with an available driver
- الهاتف الذكي أو برنامج البريد الإلكتروني يتنبأ بالكلمة التالية التي ستكتبها، حيث يتعلم من الكلمات التي كتبتها سابقًا.
 - أيستخدم الذكاء الاصطناعي لإلغاء القفل وفتح هاتفك من خلال نظام التعرُّف على الأوجه.
 - ويُستخدم أيضًا لتخصيص محتوى الوسائط الاجتماعية ونتائج البحث.

يعمل الذكاء الاصطناعي في خلفية البرامج، وينجز أمورًا مثل تصفية الرسائل الإلكترونية المزعجة أو مطابقة الراكب مع السائق المتوفر.







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How can futuristic technology improve education and life?

- Futuristic technologies can improve the lives of people of determination.
- >> For example:
 - Someone with a visual impairment can use AR to see their family members up close.
 - ② Disabled individuals can use virtual assistants powered by AI to accomplish everyday tasks, such as making phone calls and navigating their computer using their voice or sign language.
 - VR can also immerse able-bodied people in experiences that demonstrate the barriers disabled people face every day.



البومية؟ كيف يمكن للتكنولوجيا المستقبلية تحسين التعليم والحياة البومية؟

- يمكن للتكنولوجيا المستقبلية تحسين حياة الأشخاص ذوى الهمم، فعلى سبيل المثال:
- 1 يستطيع شخص ضعيف البصر أن يستخدم الواقع المُعزِّز (AR)؛ ليرى أفراد أسرته عن قرب.
- يمكن للأشخاص ذوي الهمم استخدام مساعدين افتراضيين مدعومين بالذكاء الاصطناعي لإنجاز المهام اليومية،
 مثل الاتصالات الهانفية واستخدام أجهزة الكمبيوتر الخاصة بهم باستخدام أصواتهم أو لغة الإشارة.
- يمكن للواقع الاقتراضي أيضًا أن يغمر الأشخاص الأصحاء في تجارب تُبين لهم العراقيل التي يواجهها ذوو الهمم يوميًا.

ICT Prim. 6 - First Term 0(31)

1	
6	Choose the correct answer:
20.00	1 combines the real world with a virtual world by adding
100	computer-generated images.
TOTAL .	a. Virtual reality b. Augmented reality c. Assistive technology
Carried of	is a simulated 3D environment that allows users to explore
200	and interact with the surroundings as if they were in reality.
	a. Virtual reality b. Artificial intelligence c. Assistive technology
	3 is the ability of a machine such, as a computer, to think
	and learn.
	a. Virtual reality b. Augmented reality c. Artificial Intelligence
	Visually impaired people can use to see their family
	members up close.
Š	a. artificial intelligence b. augmented reality c. hearing aids
Š	(5) To experience virtual reality, users often wear
	a. 3D glasses b. VR headsets c. AR headsets
	6 Augmented reality can be done using the of your
2	smartphone.
	a. microphone b. speaker c. camera
	7 A VR headset blocks out theworld and provides 360-degree
	views.
	a. real b. virtual c. both of the previous
i i	8 Facial recognition is a feature used to unlock your phone using
A. JAN	
The same	a. artificial intelligence b. virtual reality c. augmented reality
C. Perron	Augmented reality shows a/an model of what looks like
	the real world.

b. 3D

c. invisible

	10 A cardboard VR headset is a/anwo	by to experience VR	(3
		difficult	
	ff Students can use a app to point at the digital layer of labeled stars, planets, and nebulae	night sky and see o	2
	a. Google Maps b. Vlaby c.	Sky Map	
	12 A computer learns by the provided e.	xamples.	
	a. analyzing b. storing c.	saving	
	Predicting the next word you will type using you example of	ur smartphone is a	n
	a. virtual reality b. augmented reality c.	artificial intelligence	e
	 Disabled people can use virtual assistants powered do everyday tasks, such as navigating their computa. a. artificial intelligence b. augmented reality 	er.	lo
	Put (✓) or (X):		
	A computer learns by analyzing the provided exam	ples. ()
	The Uber app uses artificial intelligence to match ride drivers.	rs with available	
		(40))
	3 Augmented reality, virtual reality, and artificial intelliconsidered futuristic technologies.	gence (AI) are)
١	4 Futuristic technologies can't improve the lives of peop	le of determination	
		()
	(5) Artificial intelligence can run in the background of p	rograms to filter	
	spam mail.	()	
	6 There is no difference between augmented reality and	virtual reality. ()	
	Virtual reality is a simulated 2D environment that allow	ws users to interact	-
	with the surroundings.	()	
	8 A VR headset blocks out the real world, and provides 360	O-degree views. ()	
١.			

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a. 2D

-o Role of ICT in Our Life

Ĉ

Theme

- (9) AR combines the real and virtual worlds to show 3D models that look real.
- 10 Al is used to unlock your phone with facial recognition.
- 11 Augmented reality helps students become active participants in learning
- 12 The ability of a machine, such as a computer, to think and learn is called AR.
- 14 To experience virtual reality, users often wear a AR headset.
- 15 Virtual reality allows you to explore museums from all over the world without leaving your home.
- Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 VR	a. includes AI, AR and VR.
② AR	b. is the ability of a machine to think and learn.
(3) AI	c. can be used to do everyday tasks, such as making phone calls.
Virtual assistants	d. is a simulated 3D environment that allows users to interact with the surroundings.
Futuristic technology	e. adds computer-generated images to show a 3D mode of what looks like the real world.

13 A cardboard VR headset is an expensive way to experience virtual reality.

Cutting-edge technology

>> It's the newest and most advanced version of a service or product. · التكنولوجيا المُتطورة: هي الإصدار الأحدث والأكثر تقدمًا من خدمة أو منتج.

Reliable Cutting-Edge Technology

Evaluating Cutting-Edge

Technology

Assistive technology

Lesson

- >>> It helps people of determination with tasks they find challenging, such as:
 - Screen magnification software
 Hearing aids
- @ Programs that turn speech into text and text into speech • التكنولوجيا المساعدة: تساعد الأشخاص ذوى الهمم في أداء المهام التي يجدونها صعبة، مثل: برمجيات تكبير الشاشة، والسماعات الطبية، والبرامج التي تُحوِّل الكلام إلى نص والنص إلى صوت مسموع.

Cutting-Edge Technology Examples

Artificial Intelligence (AI)



Augmented Reality



Virtual Reality



10

Theme

>>> These changes are emerging in new and exciting ways to help in education, improving lives, and inclusion in society, such as the

User experiences:

assistive technology of smartgloves. They empower deaf people to translate their They describe how people use and interact with a product and how they evaluate their experiences.

User experience is often divided into different areas and can be positive or negative.

• تجربة السُنخدِم تصف كيفية استخدام الأشخاص للمنتج وتفاعلهم معه وكيفية تقييمهم لتجاربهم. غالبًا ما تُقسّم تجربة المُستخدِم إلى مجالات مختلفة، ويمكن أن تكون إيجابية أو سلبية.

Smartgloves

signs in real time to spoken or text output. القفازات الذكية تُمكِّن الأشخاص الصم من ترجمة إشاراتهم فوريًّا إلى مُخرُج نصى أو منطوق.

>> It is important to be objective and evaluate these new technologies that are pushing the frontiers of knowledge.

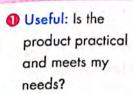
>> By evaluating, society as a whole is better informed to make decisions regarding the use and development of such technologies.

· أحدثت التكنولوجيا المتطورة تغييرات في الحياة بطُرُق لم يكن من المكن تصوُّرها حتى قبل عقد من الزمان. تظهر هذه التغييرات بطُرُق جديدة ومثيرة للمساعدة في التعليم، وكذلك لتحسين الحياة والاندماج في المجتمع، مثل القفازات الذكية من فئة التكنولوجيا المساعدة.

 من المهم أن نُقيِّم هذه التكنولوجيات الجديدة بموضوعية وعقلانية؛ وذلك لأنها تُوسِّع آفاق المعرفة باستمرار. من خلال التقييم، يكون المجتمع ككل على دراية أفضل لاتخاذ القرارات المتعلقة باستخدام هذه التكنولوجيات وتطويرها.

>> There are different evaluation tools we can use to evaluate these new technologies.

7 factors that affect UX:



Q Usable: Is the product easy to use and understand?

@ Findable: If there



Evaluating Cutting-Edge Technology

is an issue with the product, can I find the solution?

- 4 Credible: Are the company and its products trustworthy?
- 6 Accessible: Is the product accessible for people with disabilities?
- 6 Desirable: Is the product pleasant to look at and interact with?
- Valuable: Does the product improve my life or help me learn?

Explanatory Alnformation

معلومات توضيحية إضافية خارج الكتاب المدرسي

Assistive technology smartgloves are devices that use sensors to track the movements of the wearer's hands. These movements are then sent to a computer or smartphone, which uses artificial intelligence (Al) to translate them into spoken or text output.

This allows deaf people to communicate with others who do not know sign language.

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Meeting Needs

- >>> User experience is interlinked with the development of products and services.
- >> The goal of cutting-edge assistive technology, which comes in many forms, is always the same:
 - 1 To improve someone's independence.
 - Consequently, to be included in the society.

١٦ تلبية الإحتياجات:

- و ترتبط تجربة الستخدم بتطوير المنتجات والخدمات.
- ، الهدف من التكنولوجيا المُساعِدة المتطوَّرة، والتي تأتي في أشكال عديدة، هو دائمًا نفس الشيء: تحسين استقلالية شخص ما؛ وبالتالي اندماجه في المجتمع.



How to choose the best assistive technology

- >> There are several steps and considerations that include:
 - ① Awareness of the person's abilities and challenges
 - Identifying and defining a specific need

🕜 تحديد حاجة معينة وتعريفها.

- 3 Brainstorming possible cutting-edge assistive technology products
- Designing and testing
- 6 Reviewing what works well, what doesn't work as well, and adapting to meet the user's needs



يوجد خطوات واعتبارات مُتعدّدة تشمل ما يلي:

- 10 الوعى بقدرات الشخص وتحدُّماته.
- التفكير في أكثر منتجات التكنولوجيا المساعدة تطورًا.
- 🕣 إعادة النظر في منتجات التكنولوجيا المساعدة التي تعمل بشكل جبُّد، والتي لا تعمل بشكل جبُّد، والتعديل فيها؛ لتتلاءم مع حاجات المُستخدم.

Exercises on Lesson 4



1) The newest and most adv	anced version of a se	ervice or product is calle
a. assistive	b. cutting-edge	c. virtual
2 technology find challenging.	helps people of dete	ermination with tasks the
a. Assistive	b. Cutting-edge	c. Virtual
Screen magnification soft technology.	ware and hearing a	ids are types of
a. futuristic	b. cutting-edge	c. assistive
they evaluate their experie	ences.	
a. Futuristic technology		
 Artificial intelligence, augr oftechnolog 	mented reality, and vi gy.	irtual reality are exampl
a. assistive	b. cutting-edge	c. Microsoft
6 empower de text output.	eaf people to translat	e their signs to spoken o
a. Hearing aids	b. Smart glasses	c. Smartgloves
If the product is practical experience will be	and meets the cus	_
a. positive	b. negative	c. neutral
Complicated and hard-to-us		
a. positive	b. negative	c. neutral
Put (✓) or (X):		

2 Smartgloves are a type of assistive technology.

3 Artificial intelligence is one of the cutting-edge technologies.

Programs that convert speech to text and vice versa are a type of assistive technology.

(5) User experiences describe how people use a product and evaluate their experiences.

6 A user experience is always positive.

Credibility and accessibility are factors that affect user experiences.

Smartgloves don't empower people of determination.

The development of products and services doesn't affect the user experience.

One of the goals of assistive technology is to improve someone's independence.

1 The best assistive technology for a person depends on their individual abilities and challenges.

Assistive technology helps people of determination to be included in the society.

(3) If the product is pleasant to look at and interact with, this makes the user experience negative.

Complete the following sentences using the words between the brackets:

(Cutting-edge technology - User experiences - Smartgloves - Assistive technology - Hearing aids)

1 translate sign language to speech or text.

2 helps people of determination with tasks they find challenging.

3is/are how people feel about using a product.

is/are the latest and most advanced technology.

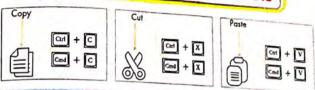
5is/are a type of assistive technology that can help people with hearing troubles.

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Lesson 5

Digital Research Skills

Useful Digital Search Tools



OS	and Copy	Cut	Paste	
• Windows	• Ctrl + C	• Ctrl + X	• Ctrl + V	
• MacOS	• Cmd + C	• Cmd + X	• Cmd + V	

Copy, cut, and paste are some of the most commonly used word processing commands.

>> They are very useful when copying, cutting, or pasting:

Text • Images • Information for citing sources

• آوامر النسخ والقص واللصق هي بعض أوامر معالجة الكلمات الأكثر استخدامًا، وتكون مفيدة جدًّا عند نسخ أو قص أو لصق من أو الصور أو الاستشهاد بالمسادر.



All of these tools are used to search for information, but the results will be different.

>>> Knowing what results you need helps to inform which search tool(s) you could use.

 أدوات البحث الرقعية تنضفُن: البحث عبر الإنترنت، ومُحرّكات البحث المتخصصة، والمكتبات الإلكترونية الموثوقة والمتاحة عبر الإنترنت.

 تساعد الأدوات في البحث عن المعلومات المطلوبة، لكنَّ النتاشج الصادرة عن كلَّ منها تكون مختلفة: ولذلك تساعد معرفة النتائج التي تحتاج إليها في تحديد أداة/أدوات البحث التي يمكنك استخدامها.

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Search Engines



>>> Search engines help people search internet websites based on keywords and phrases.

>>> They are user-friendly, very fast, and often give many results.

>>> Be sure that the content you select is credible, accurate, and unbiased

>> Examples: Google, Bing

. تسأعد مُحرِّكات البحث الأشخاص على البحث في مواقع الإنترنت بناءً على الكلمات والعبارات الرئيسة.

• وهي سهلة الاستخدام وسريعة جدًّا، وغالبًا ما تُظهر العديد من النتائج. • تأكد من أن المحتوى الذي تختاره موثوق ودقيق وغير منحاز.

Databases

Databases

>> They are collections of information which are typically stored on a computer system and can be accessed for free through a school or library.

. قواعد البيانات عبارة عن مجموعات من المعلومات، تُخزِّن عادةً في نظام حاسوبي، ويمكن الوصول إليها مجانًا من خلال

>> A database is a good place to search for information from journals, newspapers, and reference books.

قاعدة البيانات مكان جيَّد للبحث عن المعلومات من المجلات والصحف والكتب الرجعية.



General Database

• It covers many subjects. • Ex: EKB Note: A search for 'self-driving car' on the EKB won't provide a lot of results, but the results will be credible and accurate.

· قاعدة البيانات العامة تتناول العديد من الموضوعات مثل بنك المعرفة

طحه ظة: لن يُوفِّر البحث عن «سيارات ذاتية القيادة» على موقع بنك المعرفة المصرى الكثير من النتائج، ولكنها ستكون موثوقة ودقيقة.

Subject Database

- It covers only one subject, such as business or law.
- · Any results will be specific to your topic.

واعدة البيانات المتخصصة تتناول موضوعًا واحدًا فقط، مثل ريادة الأعمال أو

القانون، وأي من نتائجها ستكون محددة لموضوع بحثك.

Library Catalogs

Library catalog

) It is a database that includes all the items owned by a library. فهرس المكتبة هو قاعدة بيانات تضم كل المصادر والعناصر التي تحتويها المكتبة.

A library catalog search may include recently published books, including e-books with the most recent research about a subject.

قد يتضمُن البحث في فهرس المكتبة كتبًا منشورة حديثًا، بما في ذلك الكتب الإلكترونية التي تحوي أحدث الأبحاث في

Conducting a Database Search

- When you search any database:
- 1) Use a keyword search.
- Review the results for subject headings and search again with those terms.
- 1 You can use other database fields, such as author or journal title to narrow a search.
- >> Limiting a search to the last few years will help you find the most up-to-date research.
 - عند البحث في أي قاعدة بدانات، استخدم البحث بالكلمات المفتاحية.
 - أعد النظر في نتائج عناوين الموضوع، وابحث مجدِّدًا باستخدام هذه المصطلحات.
 - · بمكنك استخدام حقول أخرى متوفِّرة في قاعدة البيانات، مثل: اسم المؤلِّف أو عنوان المجلة؛ لتضييق نطاق السحث.
 - · سساعدك حدُ البحث بالسنوات القليلة الماضية في العثور على أحدث الأبحاث.



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Digital Research Skills

Exercises on Lesson 5

4			
Į	Choose the correct		DE LE LE LE RICE
	1 EKB is a	source of information.	11.004
	a. credible	b. unreliable	c. biasea
	2 You can use	to search on the Ir	nternet using keywords and
	phrases.		
	a. search engines	b. programing la	nguages
Ĭ	c. books		
	3) is/are co	ollections of information	on that are typically stored
	on a computer system.	more de la constante de la con	and the same of th
	a. Search results	b. Databases	c. Software
	4 The shortcut used in Wi	ndows to paste a text	or image is
	a. "Cmd + V"	b. "Ctrl + V"	c. "Ctrl + P"
	5 The keyboard shortcut	"Cmd + X" is used to	a text or an
	image in macOS.		militae minutes
	а. сору	b. cut	c. paste
	6 You can use the shortcu	t "Ctrl + C" to	a text or an image
	in Windows.		
	а. сору	b. cut	c. paste
	7 When conducting a dig	ital search, make sure	the information you get is
	a. credible	b. biased	c, unreliable
1	8 is a database	which includes all the	items owned by a library.
-	a. EKB	b. A digital libra	ry c. A library catalog
-	9 The database of	covers only one subject	et, such as business or law.
1	a. general	b subject	

	- h angina hal		Digital Research Skills
	Search engines help peo a. keywords	ple search online	based on
	u. Ko	D. Dhracos	
	£ EKB is an example of a subjects.	a d	atabase which covers many
	subjects. a. subject		overs many
į	Put (√) or (X):	b. general	c. network
	1 There is only one type of		1 1
	2 EKB is an example of a	subject database.	()
1	3 Databases can be acces	ssed for free through	gh a school or library.
	4 It is not important to cred	dit the source of in	nformation.
1	S All digital search tools g		
	6 It is recommended to use	e a keyword to cor	nduct a database search. ()
	A library catalog search	n doesn't include r	ecently published books. ()
	8 You can press "Ctrl + C"	" to cut a text or a	an image in Windows.
	The shortcut "Cmd + V" is		
	10 EKB is an inaccurate sou		
	11 Bing is a reliable databa	ase.	1 1
	12 Some Google search res	sults may be biase	ed. ()
	13 Limit your search to the l		Y Company of the Comp
	a database.		()
	14 Be sure the search result	t you select is cred	lible and accurate. ()
	15 Search engines are user-fri		
	16 A database is a good pla		
	newspapers, and books.		
	17 The shortcut "Cmd + X" is	s used to cut a text	or an image in Windows. ()
	18 The type of results you no		
	use.	icca iiii iicip joo	()

20 You can use other database fields, such as author or journal title, to narrow a search.

Complete the following sentences using the words between the brackets:

(library catalog - cut - keywords - subject database - EKB)

1 The shortcut "Ctrl + X" is used to a text in Windows.

2is an example of a general database which covers many subjects.

3 It is preferable to use to search for information on a database.

Acovers only one subject and any results will be specific to your topic.

5 A is a database which includes all the items owned by a library.



Mobile Devices

Types of Mobile Devices

Mobile devices include smartphones, tablets, and e-readers.

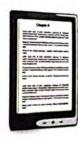
Smartphones and Tablets

- They surf the web and check emails, similar to PCs.
- They often have high-quality cameras, speakers, and screen resolution.
- تُستخدم الهواتف الذكية والتابلت في تصفُّح شبكة الإنترنت، والتحقُّق من البريد الإلكتروني مثل أجهزة الكمبيوتر الشخصية. وغالنًا ما تحترى على كاميرات وسماعات ودقَّة شاشة عالية الحودة.



E-readers

- They look like tablets, but are mainly used for reading books.
- الفارئات الإلكترونية تبدو مثل التابلت، ولكنُّها تُصنفذَم بشكل أساسي في قراءة الكتب.



Mobile devices features

- These handheld computers are portable and can access the Internet.
- >> They can be held in landscape or portrait mode, laid flat, and connected to other devices.
- Many mobile devices function by touch.
 - تتميّز أجهزة الكمبيوتر الحمولة هذه بقابلية حملها وإمكانية اتصالها بشبكة الإنترنت.
 - ويمكن حملها في وضع أفقي أو عمودي أو وضعها بشكل مسطَّح، والاتصال بأجهزة أخرى. • تعمل العديد من الأجهزة المحمولة بتقنية اللمس..



 ϵ

Mobile devices and learning

- Mobile devices offer higher engagement levels for students and extend learning beyond the classroom, for example:
 - Oreating short videos or taking photos for projects.
 - Scanning QR codes to access content-related videos, audios, and texts created by the teacher, and the students themselves.
 - 6 Greater opportunities for collaboration by using online post-it walls, shared class forums, or group chats.
 - Listening to podcasts, reviews of video games, and accessina learning apps.

تتبح الأجهزة المحمولة مستويات مشاركة بمعدَّل أعلى للطلاب، وتوسع نطاق التعلُّم خارج الفصل الدراسي، على

- 🕦 انشاء مقاطع فيديو قصيرة أو التقاط صور للمشر وعات.
- ومسح رموز الاستجابة السريعة QR codes للوصول إلى الفيديو والمقاطع الصوتية والنصوص ذات الصلة بالمحتوى،
- 3 إناحة المزيد من الفرص للتعاون من خلال استخدام جدران نشر التعليقات عبر الإنترنت أو منتدبات الفصل المشتركة
- 🗿 الاستماع إلى المدوِّنات الصوتية (البودكاست) والحصول على التقييمات الخاصة بألعاب الفيديو والوصول إلى تطبيقات التعلُّم.

The challenges of using mobile devices

- >> Some people say that having such easy access to any information has decreased.
 - 1 Thinking skills 2 Social interaction
 - 8 People's attention span
- >> Being tempted to use the device for social or entertainment reasons is another possible issue.
- >> Small screens can make reading texts challenging and viewing complex graphics difficult.

ورى البعض أن سهولة الوصول إلى المعلومات قد قلُّل من مهارات التفكير والتفاعل الاجتماعي، ومن مدى فترة تركيز الناس، التعرُّض لإغراء استخدام الجهاز المحمول لأسباب اجتماعية أو ترفيهية، يُعَدُّ مشكلة أخرى مُحتمّلة.

• كما ممكن للشاشات الصغيرة أن تجعل قراءة النصوص ومشاهدة الرسومات البيانية المعقدة أمرًا صعبًا.





Explanatory Information معلومات توضيحية إضافية خارج الختاب المدرسي

- Online post-it walls are a great way to brainstorm ideas and collaborate
- They allow users to post sticky notes with their ideas, which can then be easily shared and edited by others. This makes it easy to keep track
- Google Keep and Evernote are examples of online post-it wall apps.

providing solutions with cutting-edge assistive technology

- Without cutting-edge assistive technology products and apps for tablets and smartphones, people of determination face challenges accessing education, healthcare, and employment.
- Cutting-edge assistive technology installed on mobile devices is providing new solutions.

For examples:

- 1 This technology can connect homebound individuals with their educational provider.
- A speech assistance app can help a non-verbal student participate in a class.
- 3 Assistive software on tablets and smartphones can help people of determination in the workplace to manage time and tasks.
- Essential future skills can be developed so that all citizens can use their mobile devices to access learning.
 - و من دون منتجات وتطبيقات التكنولوجيا المُساعدة المنط ورة المخصصة للأجهـزة اللوحية والهواتف الذكية، يواجــه ذوو الهم تحدُّيات في الحصول على التعليم والرعاية الصحية والتوظيف.
 - ثُونُر التكنولوجيا المُساعدة المتطورة المثبَّثة على الأجهزة المحمولة حلولًا جديدة. على سبيل المثال، يمكن لهذه التكنولوجيا ربط الأفراد المجبرين على البقاء في المنزل بمُقدِّم الخدمات التعليمية الخاص بهم.
 - و كما يمكن لتطبيقات المساعدة على الكلام مساعدة التلاميذ المصابين باضطراب التعلُّم غير اللفظيُّ في المشاركة داخل الفصل. • وتُعاون البرامج المساعدة المثبَّتة على الأجهزة اللوحية والهواتف الذكية الأشخاص ذوى الهمم على إدارة الوقت والمهام في
 - يمكن تطوير المهارات المستقبلية الأساسية؛ حتى يتمكِّن جميع المواطنين من استخدام أجهزتهم المحمولة للتعلم.



Exercises on Lesson 6

	the state of the s	The same of the sa
Choose the correct an	swer:	li j
include(s) sn	nartphones, tablets, and	e-readers.
- Assistive technology	b. Mobile devices	or i torn our devices
are used to	surf the web and check e	emails, like PCs.
a. Smartphones and table	ts b. Cameras and speaker	s c. Keyboards
3 You can scan QR codes to	access	
g text	b. video and audio	
E-reader is a mobile device	that is mainly used to	
a. read books	b. watch videos	c. check emais
Smartphones and tablets o	ften have	
a cameras	b. speakers	c. both of the previous
6app can help	a non-verbal student po	articipate in a class.
a. A screen magnification	b. A speech assistance	c. Zoom
Mobile devices can be used	d in mode(s), depending on the
required task.		
a. portrait	b. landscape	
Smartphones and tablets of	ten havequality	screen resolution.
a. high	b. low	c. normal
Mobile devices can help str	udents learn in more eng	gaging ways beyond
the classroom through activ	ities, such as	
a. listening to podcasts	b. scanning QR codes	c. both of the previous
10 You can use mobile devices	to scan	and access related
content.		
a PIN codes	b. QR codes	c. podcasts

put (/) or (x):		Mobile Devices
1 There is no difference 2 E-readers are a type of 3 Smartphones and table 4 E-readers often have h 5 Some people think the thinking skills. 6 Mobile devices can extend	ts are used to browse the we nigh-quality cameras and s at easy access to informati	eb and check emails. () speakers. () on may decrease
 7 It is difficult to create s 8 Modern mobile device 9 Small screens can male 10 E-readers are used to a 11 Mobile devices can be 12 Easy access to informate attention span. 13 Technology can help heroviders. 14 Assistive technology has 	short videos using mobile of es function by touch. ke viewing complex graph create graphs and videos. e held only in portrait mod ation using mobile devices nomebound individuals cor	devices. () ics difficult. () le. () has increased people's () nnect with education
Complete the follow	ving sentences using	the words between
1 are portabl 2 Scanninghel 3look like	lps students access information tablets, but are mainly us	scape or portrait mode. ation quickly and easily. ed for reading books.
A app co Online or collaboration between	n mobile devices provide	nt participate in a class. greater opportunities for

Mobile Operating Systems

Operating sustem (OS) It is the software that manages a computer's functions, such as memory, drives, printers, and other devices. يظام التشفيل: هو البرنامج الذي يدير وطائف الكمبيوتر مثل الذاكرة ومُحرُكات الأقراص والطابعات والأجهزة الأخرى،

- >> The operating system also manages accessible devices, such as screen readers and magnifiers.
- >> It runs a computer's software and hardware.
- >> It acts as a translator, allowing a user to communicate with the computer without knowing computer languages. نظام التشغيل يدير أيضًا الأجهزة المُساعِدة مثل قارئات ومكبَّرات الشاشة.

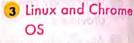
• كما أنه يدير برامج وأجهزة الكمبيوتر ويعمل مترجمًا، وهذا يُمكن المستخدم من التواصل مع الكمبيوتر من دون الحاجة إل

Computer Operating Systems

- >> Most computers come pre-loaded with an operating system, such as: و تأتى معظم أجهزة الكمبيوتر مُحمَّلة مسبقًا بنظام تشغيل مثل:
- Microsoft Windows
- · It's the most popular worldwide.
- · It's used on 75% of computers.



- · It runs on Apple computers.
- · It's used on 15% of the world market.



· It's used on about 2-3% of the market.





ÉiOS

Mobile Operating Systems

>> Mobile devices have mobile operating systems.

Android

- The most popular worldwide
- Used on 72% of the world market
- Open-source operating system

Apple iOS

- · Runs on iPhone
- Used on 27% of the world market
- Closed-source operating system

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Mobile Operating Systems

- Android uses open-source software, which means the programming code can be read or changed by anyone.
- Apple's iOS is closed, which means it can't be seen or changed by the public.
- Both Android and iOS perform the same basic functions, such as messaging, web access, video chat and touch functions,

أندرويد برنامج مفتوح المصدر: ما يعني أنه يمكن لأيُّ شخص قراءة شفرة البرمجة أو تغييرها.

- في حين لا يمكن لعامة الناس رؤية شفرة البرمجة الخاصة بنظام تشغيل Apple iOS المغلق أو تغييرها. و يؤدّي كل من نظام أندرويد ونظام تشغيل iOS الوظائف الأساسية نفسها؛ مثل: إرسال الرسائل، والاتصال بشبكة

الإنترنت، والدردشة عبر الفيديو، والعمل بخاصية اللمس،

Cutting-Edge Operating Systems

>> Other types of operating systems power (run) different types of cutting-edge technologies.

For example:

- 1 The Robot Operating System (ROS): is open-source software for building robot applications.
- There are multiple operating systems powering self-driving cars, including those developed by Apple, Microsoft, and Google, as well as individual car companies.

أنظمة التشفيل للتطورة:

- تُشغِّل أنواع أخرى من أنظمة التشغيل أنواعًا مختلفة من التكنولوجيات المتطوِّرة، على سبيل المثال:
 - نظام تشغيل الروبوت، وهو برنامج مفتوح الصدر لبناء تطبيقات الروبوت،
- · وهناك العديد من أنظمة التشغيل التي تُشغّل السيارات ذاتية القيادة، وتتضمُّن تلك التي طوّرتها شركات أبل، ومايكروسوفت وجوجل، وكذلك شركات السيارات الخاصة.



Programming Languages

Programming languages

Instructions for a computer are given in code.

لغات البرمجة تُعطى الأوامر لجهاز الكمبيوتر على هيئة شفرة.

- >> Over time, programming languages have evolved from simple machine language (binary) to high-level human-like languages.
- >> Computer languages often share similarities, so once you learn one, it is easier to learn others.
- >> Programmers choose a language based on the purpose.
- >> Programming languages are usually open source. Anyone can see, modify, or distribute the code.
- >> Programmers use Hyper Text Markup Language (HTML) to create web pages. . ويعرور الوقت، تطوُّرت لغات البرمجة من لغة الآلة البسيطة (النظام الثنائي) إل لغات عالية المستوى شبيهة باللغة التي يقهمها البشر. وغالبًا ما تتشابه لغات الكمبيوتر؛ لذلك بمجرد أن تتعلم لغة واحدة، يتبسّر لك تعلّم اللغات الأخرى، . يختار المبرمجون اللغة المناسبة بناءً على الهدف، وعادة ما تكون لغات البرمجة مقتوحة المسدر؛ حيث يمكن الئي شخص ، ذية الشفرة أو تعديلها أو توزيعها لإنشاء صفحات الويب.

HTML

SANARANA C

- HTML is commonly chosen for website creation because it is easy to learn, use, and make changes.
- It allows creators to add elements such as texts, links, images, audios, and even videos to their web pages.
- It is compatible with all the major web browsers.
 - , يشيع اختيار HTML لإنشاء مواقع الويب؛ لأنها سهلة التعلم والاستخدام وإجراء التغييرات. , تسمح هذه اللغة للمبتكرين بإضافة عناصر مثل: النصوص، والروابط، والصور، والمقاطع الصونية، ومقاطع القيديو، إلى صفحات الويب الخاصة بهم، وهي ملائمة لكل مُنصفَّحات الويب الكبري.
- >> Most computers and apps function well regardless of the operating system and programming language used.
- >> You may develop preferences over time, but you're most likely to notice differences when you directly compare how a website or an app looks on different devices or on different operating systems.
 - . تعمل معظم أجهزة الكمبيوتر والتطبيقات بشكل جيِّد؛ بغض النظر عن نظام التشغيل ولغة البرمجة المُستخدمة. وبمرور الوقت، قد يصبح لديك تفضيلات، ولكن من المرجِّح أن تلاحظ اختلافات عندما تقارن بصورة مباشرة بين شكل موقع الكتروني أو تطبيق على الأجهزة المختلفة أو على أنظمة تشغيل مختلفة.

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EXercises on Lesson

The is the s	oftware that man	The state of the s
1) The is the s	rage b. operating s	s a computer's functions.
a. Android	b. macOS	puters worldwide is
a. Windows	b. Android	iles worldwide is
a, operating system	b. CPU	e and hardware.
6 Instructions for a compute	ter are given in the f	orm of a/an
a word file	b. code	c. audio
6 The allows of knowing computer lang	uages.	
a. operating system	b. hardware	c. compiler
7) is the mol	oile operating system	that runs on iPhone.
a. Android	b. iOS	c. Linux
(8) is an open	rating system for App	ple computers.
a. Windows	b. macOS	c. iOS
9 manages magnifiers.	accessible devices, s	such as screen readers and
a. Windows	b. Word	c. The hardware
10 MacOS is an operating :	system developed by	·
a. Microsoft		
11 Windows is an operating	system developed l	оу
a. Microsoft	b. Apple	

- Role of ICT in Our Life 12 There are many operating systems for computers, such as Windows and c. Linux b. Android a. iOS is an open-source operating system for mobile devices. c. macOS b. iOS a. Android is a closed-source operating system for mobile devices. c. Windows b. Apple iOS a. Android software means that the programming code can be read or changed by anyone. b. Closed-source c. Both of the previous a. Open-source 16is an open-source software for building robot applications. c. Android b. ROS a. iOS 17 Programming languages have evolved from to high-level languages. b. very high languages c. mild languages a. machine languages 18 One of the functions of mobile operating systems is c. both of the previous b. touch a. messaging

2	Put (/) or (X):		
	Most computers come preloaded with an operating system.	1	1
	2 Accessing the web is not one of the basic functions of operating sys	tem	15
	3 Android is an open-source operating system.	1	
ý	4 Linux is the most popular operating system all over the world.	(1
	5 HTML is commonly used to create web pages.	(1
	Operating systems manage software only.	(1
	The operating systems Android and iOS perform the same basic functions	ion	s.

(8) Windows is open-source software that can be edited by anyone.

Mobile Operating Systems

Programmers choose a language based on the purpose of the program.

Windows is an operating system used on 15% of computers.

Apple iOS is closed-source software which cannot be changed by the public.

The similarities between programming languages make them easy to learn.

Self-driving cars don't need operating systems to perform.

Programming languages are usually closed sources.

Closed-source software means the code can be read and changed by anyone.

HTML isn't compatible with all the major web browsers.

There are multiple operating systems powering self-driving cars.

Choose from column (A) what suits it in column (B):

Column (A) Column (B) a. means that anyone can view and modify the 1 MacOS software. b. is the most popular mobile operating system 2 iOS worldwide. c. runs on iPhone and is used on 27% of the world 3 The operating market. system d. is an operating system for Apple computers. 4 Open-source software e. is the software that manages a computer's (5) Android

functions.

(ICT Prim. 6 - First Term 0.57)

Lesson

Website Design

HTML Tags

HTML

- >> Hyper Text Markup Language (HTML) is the standard programming
 - language used to create static web pages.
- It describes the structure of a web page.

مى لغة البرمجة القياسية المُستخدَمة في إنشاء صفحات الويب، وهي تصف هيكل صفحة الويب.

HTML Elements

HTML consists of a series of elements, such as:

Headings

Paragraphs

Links

Images

Will lead to

These are the building blocks of web pages.

, HTML تتكوُّن من سلسلة من العناصر الأساسية لإنشاء هذه الصفحة، مثل: العناوين، والفقرات، والروابط، والصور، . هذه هي المُكونات الأساسية لصفحات الويب.

>> Web browsers read HTML documents and display the content according to the HTML tag.

Tags have three main parts:

An opening tag

The content

A closing tag

، تقرأ مُتصفَّحات الويب مستندات مكتوبة بلغة HTML، وتعرض المحتوى وفقًا لوسم HTML، وتتكوُّن الوسوم من ثلاثة أحزاء رئيسية: وسم البداية، والمحتوى، ووسم النهاية.

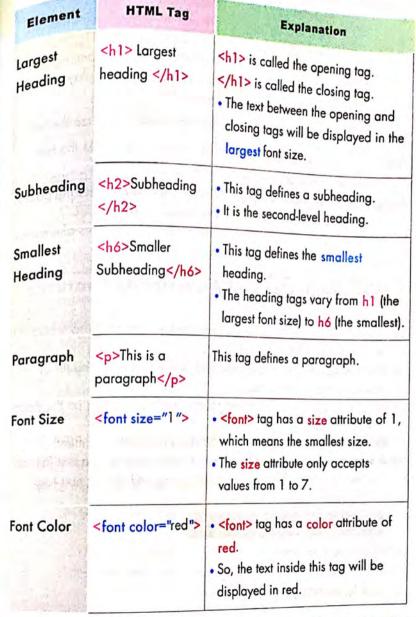
Explanatory Marion

معلومات توضيحية إضافية خارج الكتاب المدرسي

While many HTML tags consist of an opening and a closing tag, some tags known as void elements only have an opening tag. An example of void elements is <ima>.

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37 Some examples for HTML tags:



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Website Design

Lesson (8

Role of ICT in Our Life

Hyperlink	 Visit EKB 	 The <a> tag is used to create a hyperlink. The href attribute specifies the URL of the link. The text between the opening and closing tags will be displayed as the hyperlink.
	<i>ltalics text</i>	• <i> tag is used to italicize the text.</i>
Italics		• The tag makes the text
Bold	Bold text 	bold.
Process .	<td>• The src attribute provides the path to</td>	• The src attribute provides the path to
Image	alt="self-driving car">	the image. The alt attribute provides alternative text for the image.

Website Design and Accessibility Features

- >> HTML elements break up web pages to make them easier to scan, read, and navigate.
- >> HTML code can also help people with low vision to distinguish between parts of a web page.
 - 1 Without HTML tags, a screen reader reads everything on the page without stopping.
 - With HTML tags, a screen reader stops after every element.
- A screen reader will describe an image only if an alternate text (alt text) has been included. This requires an image tag and an "alt text tag."

To see web page alt-text:

- 1 Right-click on an image.
- Select "inspect."
- 6 Look for the HTML tag "alt."











تصميم موقع إلكتروني ومزايا إمكانية الوصول:

- و أن منام المن HTMI صفحات الرب التسهيل إمعان النظر فيها وقراءتها وتصفحها.
- . الم و ما 11:5 HTML أيضًا الأشخاص ضعاف البصر على التمييز بين أجزاء صفحه الويب.
- فمن دين وسوم لغة ترميز النص التشعبي، يقرأ قارئ الشاشة كل شيء معروض على الصفحة من دون توقف
 - الدون الشاشة بعد كل عنصر.
- ولن تصف شفرة لغة طلالط صورة إلا إذا أدرجت شفرة النص البديل، وهذا يتطلب وَسم صورة ووَسم النصُّ البديل لمشاهدة النص البديل لصفحة الويب، انقر بزر الماوس الأيمن على إحدى الصور وحدُّد وفحص، ابحث عن علامة «alt».

NOTES:

- 1 A large heading at the top of the page catches the attention.
- Subheadings make the text easy to scan, so a reader can find the information they want.
- 3 Text broken up into paragraphs makes it easy for the reader to scan for the information they want.
- 4 Images also attract the attention and can trigger different emotions.
- 5 To make the images accessible, add image and alt-text tags.
 - العنوان الكبح في أعلى الصفحة يلفت الانتباه، والعناوين الفرعية تجعل النص من السهل مسحه ضوئيًا؛ حتى يتمكّن القارئ من العثور على المعلومات التي يريدها.
 - النص المقسم إلى فقرات يجعل من السهل على القارئ مسح المعلومات التي يريدها.
 - تجذب الصور أيضًا الانتباه، ويمكن أن تثير مشاعر مختلفة، ولتسهيل الوصول إلى الصور، أضف علامات الصور والنص البديل.

Exercises on Lesson

all	-	Choose	the	corr	ecta	answer:
Y		T. Asset				C-1

HTML consists of a series of elements, such as links, images and.

a. headings

b. paragraphs

c. both of the previous

2)is the standard programming language used to create web

b. Python

pages.

a. HTML

c. C++

3 The HTML tag that is used to create a paragraph is

a. <h>

b. <a>

c. >

A HTML tags have main parts.

a. two

b. three

c. four

5 To make the images accessible on web pages, add to in HTML.

a. alt-text

b. meta

c. title

6 The tag is used to create the largest heading in HTML.

a. <h1>

b. <h6>

c. <L1>

To create the smallest heading in HTML, use the tag.

a. <h1>

b. <h6>

c. <S1>

8 Large headings are placed at the of the web page to catch the attention.

a. middle

b. bottom

c. top

The tag is used to create a hyperlink in HTML.

a. <a>

b. <h>

c. <L>

10 HTML tags consist of an opening tag, a closing tag and

a. the content

b. comments

c. attributes

		A STATE OF THE PARTY OF THE PARTY.	1
11 The tag	is used to italicize a tex	t in HTML	
a. <h></h>	b. 	C. <i>></i>	
12 To see web page alt-te:	xt, right click on an ima	ge and select	
a. open	b. inspect	C. properties	••
To make the text bold i	n HTML, you can use	o. properties	
a. <bold></bold>	b. 	c cs	
13read HTML	documents and display	the seed of	
the HTML tag.	and dispidy	the content according	t
	b. Web servers	c Dovine	
15 The href attribute is use	d with <a> tag to create	c. Devices	
a. paragraph	b. image	c hyperlish	۱L
16 With HTML tags, a sc	reen reader	c. hyperlink	
the web page.		affer every element	ir
a. repeats	b. stops	c. continues	
17 The attr	ribute is used to provid	le alternative text for the	16
image in HTML.			
	b. alt	c. img	
18 Adding			c
reader can find the inf		Same of the second	
a. images	b. subheadings	c. music	
Dut (() or (V)			
Put (✓) or (X):			
1 HTML tags consist of fo	our main parts.	(

2 HTML is the standard programming language used to create dynamic web pages.

3 HTML includes only headings and paragraph elements.

1 In HTML, the <i> tag is used to display text in italics.

5) To make the text bold, you can use the <bold> tag in HTML.

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- 6 A large heading at the top of the page catches the attention.
- 7 </h6> is an opening tag to display the smallest heading in HTML.
- 8 Subheadings font size is larger than the heading.
- 9 HTML code can help visually impaired people distinguish between park of a web page.
- 10 Web browsers have difficulty reading HTML documents.
- 11 To make the images accessible, add image and alt-text tags.
- 12 Without HTML tags, a screen reader stops after every element.
- 13 The <h 1 > tag is used to create a paragraph in HTML.
- 14 Adding images to web pages attracts the attention and triggers different emotions.
- 15 is used to display the image in HTML.
- 16 When a text is organized into paragraphs, it allows readers to find information quickly.
- Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 	a. It defines a paragraph in HTML.
2) <h1></h1>	b. It is used to create a hyperlink in HTML.
3 	c. It is used to make the text bold in HTML.
4) <i></i>	d. It is used to make the text italics in HTML.
5)	e. It is used to create the largest heading in HTML



Role of ICT in Our Life

Lesson

- Mr. Kartik Sawhney is a National Geographic Explorer and a computer expert.
- He uses technology to empower people of determination.
- His Bachelor's and Master's degrees in Computer Science at Stanford University, California, in the US.
-)) His studies focused on artificial intelligence (AI) and human-computer interaction.
-) Mr. Sawhney created an app that converts graphs into audio frequencies.
- Mr. Sawhney has received national and international awards.
- 3) Mr. Sawhney co-founded istemai.com (I-Stem) which provides software that changes digital texts into a format that can be easily used by the blind and visually impaired.
- 3) The I-Stem platform includes mentorship and employment opportunities for people of determination.
-)) The platform is supported by UNICEF, Microsoft, and the National Geographic.
- >> Volunteer mentors can help people of determination with resume writing, job interview preparation and career-related questions.
- >> Egypt supports people of determination in many ways.
-)) There are several ways to create a website using platforms and coding languages.
-)) HTML is a programming language that allows web developers to arrange the various parts of their website using less codes.
- >> HTML is relatively easy to learn and runs on all browsers.
- >> HTML is best used for static web pages.
- Some websites use dynamic web design languages, such as JavaScript, PHP, or Python.
- >>> Kartik Sawhney programs in Python, but he has also programmed in C# and C++.

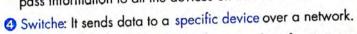


html

LANGUAGE_

Lesson 2

- >> Networks: They are groups of people or things that are connected to each other for a common purpose.
- >> Computers: They are electronic devices that create, process and store information
- >> Types of computers:
 - 1) Personal computers, such as desktop computers and laptops
 - 2 Mobile devices, such as smartphones, tablets and e-readers
- >> Types of networks:
 - 1 Wired networks: They use cables that are plugged into ports.
 - 2 Wireless networks: They connect devices without wiring using radio waves or Wi-Fi.
- >> Network devices:
 - 1) Server: It's a computer which provides services to other computers.
 - 2 Modem: It's a device that connects a LAN to the Internet.
 - 3 Hub: It allows wired devices to connect to a network and pass information to all the devices on that network.



- 6 Router. It connects a modem to different networks; it functions as a gateway,
- >> Switches are intelligent devices, but hubs are unintelligent.
- >> Artificial intelligence (AI): It is a machine's intelligence that can be used to solve problems.
- >> Examples of Al on your devices: navigation, voice recognition, virtual assistants, holograms
- >> Holograms: It is a 3-dimensional (3D) image that you can see without the use of special glasses or equipment.
-) If you look at a regular 3D image without special 3D glasses, it will appear as a 2D image.

Lesson

- Augmented reality (AR) combines the real world with a virtual world by adding computer-generated images.
- Virtual reality: It is a simulated 3D environment that allows users to explore and interact with the surroundings, as if they were in reality. To experience VR, users wear a VR headset that provides 360-degree views.
- A cardboard VR headset is an inexpensive way to experience VR.
- Artificial intelligence (AI): It is the ability of a machine such, as a computer, to think and learn.
- Example of using Al: A smartphone or email program that predicts the next word, facial recognition, filtering spam mail and matching a paying passenger with an available driver. Futuristic technologies can improve the lives of people of determination.

Lesson 4

- Cutting edge technology: It's the newest and most advanced version of a service or product, such as: artificial intelligence (Al), augmented reality (AR) and virtual reality (VR).
- Assistive technology: It helps people of determination with tasks they find challenging, such as: screen magnification software, hearing aids, speech-to-text and text-to-speech programs.
- Smartgloves: They empower deaf people to translate their signs in real time to spoken or text output.
- >> User experiences: Describe how people use and interact with a product, and how they evaluate their experiences. It may be positive or negative.
- >> There are 7 factors that affect UX in the opposite figure.
- >> User experience is interlinked with the development of products and services.
- >> The goal of cutting-edge assistive technology is to improve someone's independence and to be included in society.

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Lesson

Command	Сору	Cut	Paste
and the same of th	• Ctrl + C	• Ctrl + X	• Ctrl + V
• Windows		• Cmd + X	• Cmd + V
• MacOS	• Cmd + C	- Cilia i ii	

- >> Search engines help people to search Internet websites based on the keywords and phrases.
- >> They are user-friendly, very fast, and often give many results.
- Databases: They are collections of information which are typically stored in a computer system and can be accessed, for free, through a school or library.
- >> A database is a good place to search for information from journals. newspapers, and reference books.

General Database	Subject Database
• It covers many subjects.	 It covers only one subject, such as business or law. Any results will be specific to your topic.

- >> Library catalog: It is a database which includes all the items owned by a library.
- >> When you search any database:
- 1 Use a keyword search.
- 2 Review the results.
- 3 You can narrow a search by using fields like author or journal title.

Lesson 6

>> Mobile devices include smartphones, tablets, and e-readers.

Smartphones and Tablets	E-readers
 They surf the web and check emails. They often have high-quality cameras, speakers, and screen resolution. 	They look like tablets, but are mainly used for reading books.

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- Mobile devices are portable and can access the Internet and function by
- They can be held in landscape or portrait mode, laid flat.
- 1) They con mode, laid flat.

 Mobile devices help students in learning beyond the classroom,
- for example: Creating short videos or taking photos for projects.
- Scanning QR codes to access content,
- Using online post-it walls, shared class forums, or group chats.
- Using orange to podcasts, reviews of video games, and accessing learning
- Some say easy access to information has decreased the thinking skills, social interaction and people's attention span.
- Small screens can make reading and viewing graphics difficult.
- A speech assistance app can help a non-verbal student participate in a class, where people can buy and sell products.

Lesson

- Operating system (OS): It is the software that manages a computer's functions, such as memory, drives, printers, and other devices.
- OS manages accessible devices, such as screen readers and magnifiers.
-) OS runs a computer's software and hardware.
-)) OS acts as a translator; it translates user communication to computer languages.
-) Computer operating systems:

Microsoft Windows	MacOS	Linux and Chrome OS
 It's the most popular worldwide. It's used on 75% of computers. 	It runs on Apple computers. It's used on 15% of the world market.	• It's used on about 2-3% of the market.

SUMMARY on Theme

>> Mobile operating systems:

Android

- The most popular worldwide
- Used on 72% of the world market
- Open-source operating system

Apple iOS

- Runs on iPhone
- · Used on 27% of the world market
- Closed-source operating system
- >> Cutting-edge operating systems:
 - 1 The Robot Operating System (ROS): is an open-source software for building robot applications.
 - Operating systems powering self-driving cars
- >> Programming languages: Instructions to a computer are given in codes >> Programming languages have evolved from simple machine language
- (binary) to high-level human-like languages.
- >>> Programming languages are usually open-source.
- >> HTML is compatible with all the major web browsers.

Lesson 8

- >> Hyper Text Markup Language (HTML) is the standard programming language used to create static web pages.
- >> HTML consists of a series of elements such as: headings, paragraphs, links and images.
- >>> Web browsers read HTML documents and display the content according to the HTML tag.
- >> HTML tags have three main parts: an opening tag, the content and a closing tag.
- >> Without HTML tags, a screen reader reads everything on the page without stopping.
- >> With HTML tags, a screen reader stops after every element.
- A screen reader will describe an image only if alternate text (alt text) has been included.
- >> Images and large headings at the top of the page catches the attention.
- >> Subheadings make the text easy to scan.
- >> Text broken up into paragraphs makes it easy for the reader to scan the information

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Role of ICT in Our Life



find challenging.	ology helps people of dete	ermination with tasks the
a. Assistive	b. Cutting-edge	c. Virtual
ATML is used to cre	ate web pag	C. VIIIOGI
a. static	b. dynamic	c. both of them
3 are c	omputers that have large a	c. boll of mem
a. Switches	b. Servers	c. Hubs
(4) Instructions to a con	nputer are given in the form	c. Hubs
a. Word file	b. code	
5 databases co	ver only one subject, such	c. video
a. Electronic	b. General	
	D. General	c. Subject
Put (✓) or (x):		Article and a
1 Wireless networks c	Onnect devices with physic	al wiring and caples !
Wireless networks c Artificial intelligence	onnect devices with physic	al wiring and cables.
Artificial intelligence	e is one of the cutting-edge	technologies. (
Artificial intelligenceSelf-driving cars do	e is one of the cutting-edge n't need an operating syste	etechnologies. (em to perform. (
Self-driving cars doTo make the images	e is one of the cutting-edge	em to perform. (e and alt-text tags. (

the brackets:

(cut - E-readers - post-it walls - EKB - Smartgloves)

-is an example of a general database.
- look like tablets, but are mainly used for reading books.

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AEVISION on Theme II text in windows	A Choose from	column (A) what suits	it in . 1
The shortcut "Ctrl + X" is used to	Column (A)	Col-	
S Online	1 MacOS	specific to your tonic	ct and any results will be
	② QR codes:	b. are how people feel a	hoston
Model Exam		quickly and easily.	dents to occess information
Choose the correct answer:	User experience	d. is an operating system	for Apple computers
pass information to a specific device over a network. b. Hubs c. Modems	§ Futuristic technology:	 e. such as artificial intell and virtual reality. 	igence, augmented reality
is an operating system for Apple computers. b. MacOS c. iOS		- 9 - 0 -	-
S Kartik Sawhney studied in his Bachelor's and Master's degree a. Computer Hardware b. Computer Science c. Science		Model Exam	4
To experience virtual reality, users often wear a. 3D alasses b. VR headsets c. AR headsets	Choose the c		
You can use mobile devices to scan and access related video, audio, and texts.	 Blind people can braille termin 	n listen to texts uploaded to al b. screen readers	istemai platform using c. hearing aids
a. PIN codes b. podcasts c. QR codes		nat is used to create a parag	
Put (/) or (x):	a. <h></h>	b. <a>	c.
1) Futuristic technologies can't improve the lives of people of determination.	a. Switches	onnect devices to a network of b. Hubs	
Modern mobile devices function by touch.	You can use the	shortcut "Ctrl + C" to a te	ext or an image in Windows.
To make a text bold, you can use <bold> tag in HTML.</bold>		b. cut	
Assistive technology helps people of determination to be included in		re used to surf the web and	check emails, like PCs.
society. User experience is always positive.	a. Smartphones b. Cameras and		c. Keyboards
User experience is always positive.	n i ameras and	I MUCURCIA	

- 1/ () an (v):	
2 Augmented reality he	ating dynamic web pages. Ips students become active participants in learning
1-termination	ve technology has no effect on people
4 Android is an open-so 5 EKB is an inaccurate s	ource operating system.
EKB is an inaccurate	targes from the words between
Complete the follow	ving sentences from the words betwee
the brackets	Library catalog - iOS - Assistive technology
runs on iPho	e of determination with tasks they find challenging one and is used on 27% of the world market.
runs on iPho is a databas is the most p	one and is used on 27% of the world market, e which includes all the items owned by a library copular mobile operating systems worldwide.
runs on iPho is a databas is the most p is the latest o	one and is used on 27% of the world market, which includes all the items owned by a library opular mobile operating systems worldwide, and most advanced technology.
runs on iPho is a databas is the most p is the latest o	one and is used on 27% of the world market, which includes all the items owned by a library copular mobile operating systems worldwide, and most advanced technology.
runs on iPho is a databas is the most p is the latest of	t answer:
runs on iPho is a databas is the most p is the latest of Choose the correct A computer learns by	one and is used on 27% of the world market, which includes all the items owned by a library copular mobile operating systems worldwide, and most advanced technology.
runs on iPho is a databas is the most p is the latest of is the correct A computer learns by	tanswer: provided examples. b. storing c. saving
runs on iPho is a databas is the most p is the latest of Choose the correct A computer learns by a. analyzing	t answer: provided examples.
runs on iPho is a databas is the most p is the latest of is the correct A computer learns by a analyzing describes a. Futuristic technology	e which includes all the items owned by a librate oppular mobile operating systems worldwide, and most advanced technology. Clelexam Provided examples. b. storing c. saving how people interact with and evaluate a product.
runs on iPho is a databas is the most p is the latest of is the correct A computer learns by a analyzing describes a. Futuristic technology	tanswer: b. storing b. storing b. User experience c. Virtual reality b. World market. cond most advanced technology. c. Saving b. User experience c. Virtual reality

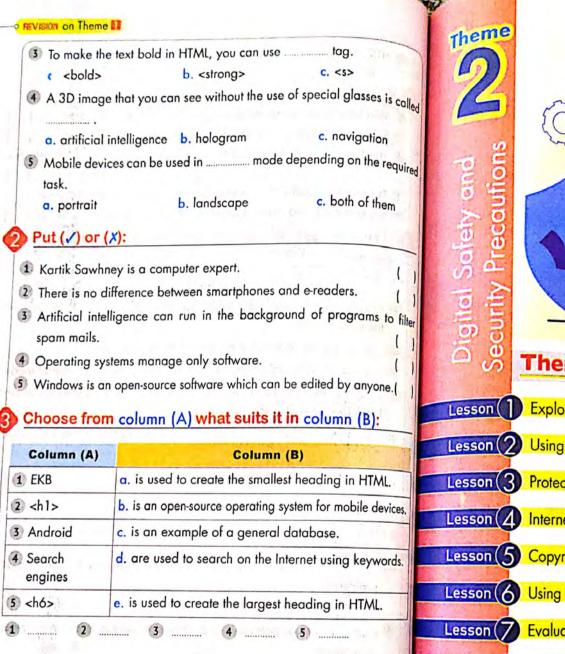
b. biased

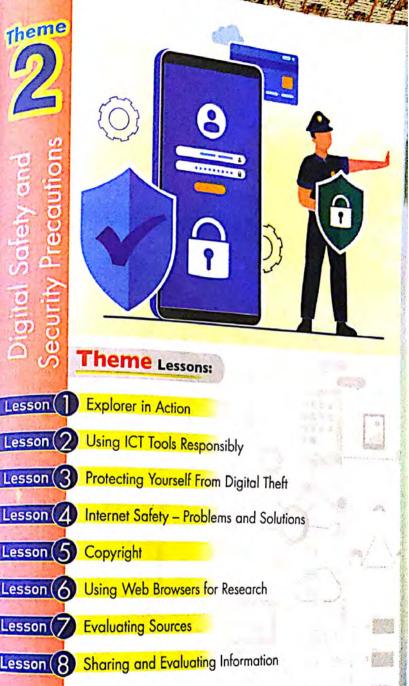
c. unreliable

- II I-as bayo	on Theme ill o-
5 HTML tags have main p	parts.
a. two b. three	c. four
Put (/) or (X):	
Windows is an operating system used	on 15 % r
Subheadings font size is larger than t	pending of computers.
The Miracle Child "Rania Saleh" is a	reddings.
	programmer with Down Syndrome.
The shortcut "Cmd + X" is used to cut a	()
It is recommended to use a keyword to	riext or an image in Windows.()
a malete the following	o conduct a database search.()
Combiere rue roughing sentend	es from the words between
the practices.	
(VR - AR - Mobile device	es - Al - HTML
is a simulated 3D environme	ont the Little
the surroundings.	and allows users to interact with
is the ability of a machine t	and the same of th
and a stable of a machine r	o think and learn.
3) are portable and can be he	ld :- !!
	and in landscape or portrait mode.
 adds computer-generated in 	eld in landscape or portrait mode. Trages to show a 3D model of what
adds computer-generated in looks like the real world.	mages to show a 3D model of what
adds computer-generated in looks like the real world.	mages to show a 3D model of what
adds computer-generated in looks like the real world. is the standard programming lands.	mages to show a 3D model of what nguage used to create web pages.
looks like the real world.	mages to show a 3D model of what nguage used to create web pages.
looks like the real world. is the standard programming land	mages to show a 3D model of what nguage used to create web pages.
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looks like the real world. Sometimes and the standard programming lands are standard progr	mages to show a 3D model of what nguage used to create web pages.
adds computer-generated in looks like the real world. is the standard programming lands.	mages to show a 3D model of what nguage used to create web pages.
adds computer-generated in looks like the real world. Sometimes and and programming land the standard programming land the st	nages to show a 3D model of what nguage used to create web pages.
doks like the real world. Sometimes and a computer-generated in looks like the real world. Model Example: Choose the correct answer:	nages to show a 3D model of what nguage used to create web pages.
doks like the real world. looks like the real world. Model Ex Choose the correct answer: is a machine's intelligence.	nages to show a 3D model of what nguage used to create web pages. 5 gence that can be used to solve
doks like the real world. Iooks like the real world. Model Ex Choose the correct answer: is a machine's intelligence b. Hologram.	nages to show a 3D model of what nguage used to create web pages. 5 gence that can be used to solve am c. Switch
doks like the real world. Sometimes and a computer-generated in looks like the real world. Model Example: Choose the correct answer: is a machine's intelligence of the correct answer.	nages to show a 3D model of what nguage used to create web pages. 5 gence that can be used to solve am c. Switch

a, credible

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Theme

Digital Safety and Security Precautions



Theme Lessons:

- Lesson | Explorer in Action
- Lesson 2 How to Deal With Electronic Games
- Lesson 3 Protecting Yourself From Digital Theft
- Lesson (4) Cyper Security
- Lesson 5 Copyright and Electronic Financial Trading
- Lesson 6 Cloud Storage of Files
- Lesson Cloud Computing Applications

Spotlight on Theme

In this theme, you will learn about the importance of taking digital safety and security precautions when dealing with the Internet and digital devices, and how to evaluate digital sources.

You will also complete a project, presenting an issue that is important to young Egyptians and making use of what you have learned.



Raghda (Didi) El-Behaedi

- >> She is a National Geographic Explorer.
- She is working towards a PhD in Egyptian Archaeology at the University of Chicago in the US.

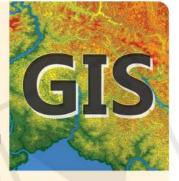


- >> Ms. El-Behaedi has worked as a remote sensing research consultant at NASA.
 - الآنسة ديدى البيحايدى مُستكشفة في ناشونال جيوجرافيك.
 - وهي تعمل من أجل الحصول على الدكتوراه في علم الآثار المصرية بجامعة شيكاغو بأمريكا.
 - كما عملت الآنسة البيحايدي بصفتها خبيرًا استشاريًا في مجال أبحاث الاستشعار عن بُعد في وكالة ناسا الفضائية.

Ms. Didi's uses technologies in her work.

Geospatial Technologies

- >> Ms. Didi uses geospatial technologies, such as:
 - Ogeographic Information System (GIS)
 - Remote Sensing (RS)
 - 3 Global Positioning System (GPS) in her work
- These technologies assist in the geographic mapping and analysis of Earth and human societies.



- She has excavated several archaeological sites in the US, France, and Egypt.
- She has been working in the area of Lake Moeris in Fayum, Egypt, to learn how ancient Egyptians dealt with the decreasing amount of water in the lake.
 - الآنسة ديدي تستخدم تقنيات الجغرافيا المكانية في عملها مثل: GIS, RS, GPS، وتساعد هذه التقنيات في رسم الخرائط الجغرافية للأرض وتحليل الأرض والمجتمعات البشرية.
 - نقُّبت الآنسة ديدي في العديد من المواقع الأثرية في كلُّ من: الولايات المتحدة الأمريكية، وفرنسا، ومصر.
 - وقد عملت أيضًا في منطقة بِركة قارون (بحيرة موريس) في محافظة الفيوم بمصر؛ من أجل معرفة كيفية تعامُل المصريين القدماء مع انخفاض نسبة المياه في البحيرة.

Remote Sensing

- Ms. El-Behaedi uses remote sensors in her work.
- >> The remote sensors provide extremely clear images of the ground's surface.
- >> Ms. El-Behaedi uses these images to identify, map, and date the ancient shores of the lake and find previously undiscovered ancient settlements.



- >>> She relied on remote sensing to build an app that simulated flooding at Abu Simbel Temple.
 - تَستخدم الآنسة البيحايدي أجهزة الاستشعار عن يُعد في عملها.
 - توفر أجهزة الاستشعار عن يُعد صُورًا واضحة للغاية لسطح الأرض.
 - الآنسة البيحايدي تستخدم هذه الصور لتحديد شواطئ البحيرة القديمة، ورسم خرائطها، وتحديد تاريخها، والعثور على المستوطنات القديمة غير المكتشفة من قبل.
 - اعتمدت البيحايدي على أجهزة الاستشعار عن بُعد لبناء تطبيق يحاكي الفيضانات في معبد أبو سمبل.
- >>> Remote sensing technology is used in many fields, such as:
 - Meteorology
- 2 Geology 3 Geography
- >> The remote sensors are special cameras placed on satellites, drones, airplanes, helicopters, and towers.
- >>> Remote sensors collect data about an object without touching it.
- >> So, they collect data from places that are dangerous or impossible to access.
- >> They collect electromagnetic waves and transform them into signals that are presented as images or numbers.
 - تُستخدم تقنية الاستشعار عن يُعد في العديد من المجالات، مثل:
 - 3 الحغرافيا،
- 1 الأرصاد الحوية. 2 الحبولوجيا.
- أجهزة الاستشعار عن بُعد هي كاميرات خاصة توضع على الأقمار الصناعية والطائرات بدون طيار والطائرات والمروحيات
- تقوم أجهزة الاستشعار عن بُعد بجمع البيانات حول جسم ما دون لمسه؛ لذا يقومون بجمع البيانات من الأماكن الخطرة أو التي يصعب الوصول إليها.
 - كما تقوم بجمع الموجات الكهرومغناطيسية وتحويلها إلى إشارات تُعرض على شكل صور أو أرقام.

Some types of remote sensors

Туре	Function
1 Infrared Remote Sensors أجهزة الاستشعار عن بُعد بالأشعة تحت الحمراء	 They can penetrate the Earth, so they are used in archaeological excavations. و يمكنها اختراق الأرض؛ لذلك يتم استخدامها في الحفريات الأثرية.
2 Radars الرادارات	 They are active sensors that produce and send electromagnetic waves and then measure those waves that reflect back from an object. They are used to measure the speed of moving objects or monitor their motion. هي أجهزة استشعار نشطة تنتج وترسل موجات كهرومغناطيسية، ثم تقيس تلك الموجات التي تنعكس من الجسم. الرادار يُستخدم لقياس سرعة الأجسام المتحركة أو مراقبة حركتها.
3 Sonar السونار	• Is used for mapping the ocean floor and finding fish. • يُستخدم لرسم خرائط قاع المحيط والعثور على الأسماك.



معلومات توضيحية إضافية خارج الكتاب المدرسي

- Geospatial technologies are tools that help us understand the world around us by collecting, analyzing, and visualizing location data. Here are some specific examples of geospatial technologies:
- Geographic Information System (GIS): GIS is a software program that allows us to store, analyze, and visualize information about places. You can use GIS to do things like finding the shortest path between two points.
- Remote Sensing (RS) is a way of collecting information about an area from far away using special cameras and sensors on satellites and airplanes.
- Global Positioning System (GPS) is used to find locations; it is commonly used in navigation systems like those in cars and smartphones.

Machine Learning

Ms. El-Behaedi uses computers to find previously unknown archaeological sites by inputting data about known archaeological sites and programming the computer to look for similar sites.



- >> This is called "machine learning".
- >>> Example on machine learning: If you have used YouTube and received suggestions for other videos you might like. Those videos show up through a data search based on other views.
 - تَستخدم الآنسة البيحايدي أجهزة الكمبيوتر لتحليل البيانات والتنبُّؤ بالأماكن التي قد تجد فيها مواقع أثرية مجهولة من قبل، وهي تُدخل بيانات حول المواقع الأثرية المعروفة، ثم تُبرمج جهاز الكمبيوتر للبحث عن مواقع مماثلة، وهذا ما يُسمَّى «التعلم الآلي».
 - مثال على التعلّم الآلي: إذا سبق لك استخدام موقع يوتيوب وتلقّيت اقتراحًا لمقاطع فيديو أخرى قد تعجبك؛ إذ تظهر مقاطع الفيديو هذه من خلال البحث عن البيانات بناءً على مشاهدات أخرى.

Laptop and iPad

- >>> Ms. El-Behaedi has published several reports on her discoveries.
- >>> She writes her texts, creates figures, and edits images using her laptop and iPad, then publishes her work in trusted journals.



نشرت الآنسة البيحايدي العديد من التقارير عن اكتشافاتها. وهي تكتب النصوص، وتُعدِّل الصور باستخدام جهاز الكمبيوتر المحمول وجهاز الآبياد، ثم تنشر أعمالها في مجلات علمية مُوثّقة.



How does Ms. El-Behaedi protect her information

Ms. El-Behaedi protects her information by:

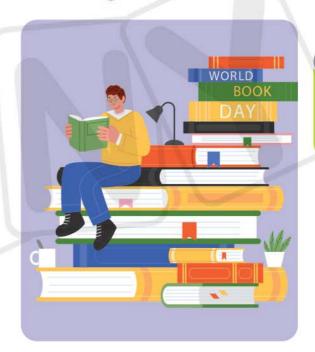
Installing an antivirus **Using strong** passwords

Backing up data frequently

• ولكي تحمي الآنسة البيحايدي معلوماتها، تستخدم برامج مكافحة الفيروسات، وكلمات مرور قوية على أجهزتها، كما تحرص على إجراء نُسخ احتياطي لبياناتها بانتظام.

>> The characteristics of Ms. El-Behaedi as an integral scholar:

- 1 Learning from other scholars.
- 2 She reads articles in trusted digital libraries and academic journals to ensure information is correct.
- 3 If she refers to other scholars' works in her reports, she uses citations.
- 4 To use images or infographics, she contacts the individual or the institution to ask for permission.



- صفات الأنسة البيحايدي بصفتها باحثة متميزة:
 - 1 التعلُّم من الباحثين الآخرين.
- 2 تقرأ مقالات منشورة في المكتبات الرقمية والمجلات الأكاديمية الموثوقة التي راجعها باحثون آخرون؛ لتضمن أن المعلومات صحيحة.
 - 3 وعندما تشير الآنسة البيحايدي إلى أعمال باحثين آخرين في تقاريرها، فإنها تستخدم التوثيق.
- وكذلك عند استخدامها صُورًا أو رسومات بيانية خاصة بأحد الأشخاص أو المؤسسات، فإنها تتواصل معهم لطلب الإذن.
- Ms. El-Behaedi intends to use the knowledge she has gained in her excavations to help preserve Egypt's cultural heritage.
- >>> Because of these important works, like Ms. El-Behaedi's work, we can learn more about our history and how our ancestors dealt with environmental changes.
- >> Solutions for the past problems could help us solve future issues.
 - تعتزم الآنسة البيحايدي استخدام المعرفة والخبرة التي اكتسبتها من خلال عمليات التنقيب التي أجرتها سابقًا؛ للمساعدة في الحفاظ على التراث الثقافي لمصر. ومن خلال الأعمال المهمة، مثل التي تؤدِّيها الآنسة البيحايدي، يمكننا معرفة المزيد عن تاريخنا، وكيفية تعامُل أسلافنا مع التغيُّرات البيئية. كما يمكن أن تساعدنا حلول المشكلات الماضية في حلِّ المشكلات التي تطرأ في المستقبل.

		Choose the correct a	nswer:		
		a. explorer	(an) at National Geo b. teacher ag to earn a PhD in	c. programmer	
	-		b. Egyptian Archaeology		
	3	Ms. El-Behaedi publishes a. trusted	b. untrusted		
	4	Ms. Didi El-Behaedi use	es geospatial technologie	es, such as GPS and	
		a. GIS	b. Remote Sensing	c. both of them	
	5	a. Opinions	urces you used in your rep b. Citations		
	6	The remote sensors are s towers.	pecial placed o	n satellites, drones, or	
		a. cameras	b. computers	c. microphones	
7 RS is an abbreviation for					
		a. Remote Sensors	b. Robotic System	c. Real System	
١	8	Ms. Didi El-Behaedi has	worked as a remote sensin	g at NASA.	
			b. research consultant	c. programmer	
9 Remote sensors transform electromagnetic waves reflected from ar and present them as					
0		a. images	b. numbers	c. both a and b	
	10	To use images or infogra	aphics of someone, you sh	ould	
		a. ask for permission	b. share them without pe	ermission	

c. ignore the owner

11 Ms. El-Behaedi built ar	app based on	that simulated flooding
at Abu Simbel Temple.		
a. machine learning	b. remote sensing	c. virtual reality
12 is used for m	apping the ocean floor o	and finding fish
a. Sonar	b. Radar	c. Both a and b
13 Ms. El-Behaedi uses	to find previously t	unknown archaeological
sites.		
a. drones	b. machine learning	c. cameras
14 Ms. El-Behaedi protect	s her information using	
a. antivirus software	b. backup of data	c. both of them
15 Inputting data about k	nown archaeological site	es and programming the
computer to look for si	milar sites is called	·········•
a. remote sensing	b. geospatial technolo	ogy c. machine learning
16 GIS is an abbreviation	for	
a. Geographic Informa	ation System	
b. Global Information	Service	
c. General Information	Software	
But (() on (V):		
Put (✓) or (X):		
1 Ms. Didi El-Behaedi is	an archaeologist.	()
2 Ms. El-Behaedi doesn't	use remote sensors in he	er work. ()
Good scholars always	cite their sources.	()
4 Ms. El-Behaedi doesn't	back up her data.	
5 Geospatial technologie	es assist in the geographi	ic mapping and analysis
of Earth.		()
6 The remote sensors pro	vide clear images of the	ground's surface. ()
7 Ms. El-Behaedi uses i	mages from remote sen	sors to find the ancient
shores of the lake.	-	()

Digital	Safety	and	Security	Precautions
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1	8	Remote sensors collect data about an object by touching It.	()
	9	Solutions to past problems couldn't help us solve future issues.)
	10	Ms. Didi El-Behaedi has studied the ancient Egyptian water manage	mei	nt
		system at Lake Moeris in Fayum, Egypt.	()
Ì	11	You should use weak passwords to protect your data.	()
	12	Ms. Didi El-Behaedi is working to earn a PhD in Egyptian Archaed	olog	у
		from Cairo University.	()
	13	Ms. Didi El-Behaedi hasn't excavated any archaeological sites in Eg	дур	ıt.
			()
	14	Infrared remote sensors can penetrate Earth.	()
	15	Ms. El-Behaedi protects her information in many ways.	()
	16	Ms. El-Behaedi uses machine learning to discover unknown		
		archaeological sites.	()
	17	Radars are used to measure the speed of moving objects.	()
		Complete the following sentences using the words betw	ee	n
	t	he brackets:		
		(citations - Remote sensors - machine learning - Radars - Explore	r)	
	1	Ms. El-Behaedi is a National Geographic		
	2	You should use to refer to others' work in your rep	ort	s.
	3	are special cameras placed on satellites, drones,	an	d
		planes to get clear images about objects.		
	4	are used to monitor the motion of an object.		
	5	Ms. El-Behaedi uses to find previously unknown		
		archaeological sites.		

How to Deal With Electronic games

- >> Electronic games can help promote critical and creative thinking and encourage teamwork.
- >> Playing online games with friends can be a lot of fun, but they can impact health.
 - 🤾 يمكن أن تساعد الألعاب الإلكترونية على تعزيز التفكير النقدى والإبداعي وتشجيع العمل الجماعي.

Disadvantages of electronic games عيوب الألعاب الإلكترونية

Physical Dangers **Psychological**

Security **Dangers**

1) Physical Dangers المخاطر الجسدية

- >>> Playing too much can affect your sleep cycle. It may keep you stimulated and prevent you from falling asleep.
- >>> It can cause eye strain, cause back problems because you stay hunched over while playing, and cause headaches.
- >> There's also a danger of gaining weight because you may not be exercising or eating properly while playing electronic games.
 - اللعب كثيرًا قد يؤثر على دورة نومك. قد يبقيك محفزًا ويمنعك من النوم.
 - كما يمكن أن يجهد عينيك ويسبب مشاكل في الظهر؛ لأنك تظل منحنيًا أثناء اللعب، ويسبب الصداع.
 - هناك أيضًا خطر زيادة الوزن؛ لأنك قد لا تمارس الرياضة أو تتناول الطعام بشكل صحيح أثناء ممارسة الألعاب الإلكترونية.



2) Psychological Dangers المخاطر النفسية

- >> You may become anxious and depressed because:
 - 1 You feel lonely in the real world.
 - 2 You are being bullied online.
- >>> Electronic games can make some people aggressive, as some games promote violence.
- >>> Electronic games can prevent some players from thinking rationally when facing situations.
- >> All of these factors can negatively affect your relationship with family and friends.
 - قد تُصاب بالقلق والإكتئاب للأسباب التالية:
 - 1 تشعر بالوحدة في العالم الواقعي.
 - 2 تتعرَّض للتنمُّر عبر الإنترنت.
 - الألعاب الإلكترونية قد تجعل بعض الأشخاص عدوانيين؛ حيث إن بعض الألعاب تشجع على العنف.
 - الألعاب الإلكترونية قد تمنع بعض اللاعبين من التفكير بعقلانية عند مواجهة المواقف.
 - كل هذه العوامل بمكن أن تؤثر سلبًا على علاقتك مع العائلة والأصدقاء.

3) Security Dangers المخاطر الأمنية

- >> Multiplayer games, in particular, can put your security at risk.
- >> If you share too much personal information, strangers may be able to access your name, email, phone number, and address.
- >>> Large gaming communities are filled with cyberbullies.
- >>> Hackers can cause your information to be leaked, and viruses are easily spread.
 - الألعاب متعددة اللاعبين -على وجه الخصوص- يمكن أن تُعرِّض أمنك للخطر.
 - إذا قمت بمشاركة الكثير من المعلومات الشخصية، فقد يتمكَّن الغرباء من الوصول إلى: اسمك، وبريدك الإلكتروني، ورقم
 - تمتلئ مجتمعات الألعاب الكبيرة بالمتنمرين عبر الإنترنت.
 - يمكن أن يتسبب الهاكرز في تسريب معلوماتك وانتشار الفيروسات بسهولة.

Responsible Gaming

To limit the dangers of electronic games:

- 1 Only play games and chat with people you know and trust.
- Respect the limits that your parents set to prevent unhealthy gaming habits.
- 3 Don't use personal information in your usernames and passwords.
- 4 Don't use a webcam.
- 6 Make sure that gaming does not replace real-life activities such as spending time with your family, meeting friends, doing homework, maintaining a healthy diet, getting enough exercise or getting enough sleep.
- 6 When you face danger, tell your parents. They want to help you through family discussions and increased supervision when using the internet.



• للحدِّ من مخاطر الألعاب الإلكترونية:

- 🕕 مارس الألعاب والدردشة فقط مع الأشخاص الذين تعرفهم وتثق بهم.
 - 🙋 احترم الحدود التي وضعها والداك لمنع عادات اللعب غير الصحية.
- الا تستخدم المعلومات الشخصية في اسم المستخدم وكلمات المرور الخاصة بك.
 - 4 لا تستخدم كاميرا الويب.
- 5 تأكُّد من أن الألعاب لا تحل محل أنشطة الحياة الواقعية مثل: قضاء الوقت مع عائلتك، أو مقابلة الأصدقاء، أو أداء الواجبات المنزلية، أو الحفاظ على نظام غذائي صحى، أو الحصول على قدر كافٍ من التمارين الرياضية أو النوم.
- 6 عندما تواجه المخاطر أخبر والديك. إنهم يريدون مساعدتك من خلال المناقشات العائلية وزيادة الرقابة عليك عند استخدام الإنترنت،

Choose the correct answer:

1	Electronic games can	help promote	
	a. critical thinking	b. creative thinking	c. both a and b
2	Playing electronic gar	mes too much can affect y	our cycle.
	a. sleep	b. digestive	c. energy
3	One of the dangers	of electronic games is	because you
	may not be exercising	j .	
	a. hacking	b. gaining weight	c. bullying
4	Hackers can steal you	r information and	can easily spread.
	a. viruses	b. books	c. videos
5	Large gaming commu	nities are filled with	···················••
	a. cyberbullies	b. doctors	c. both a and b
6	Spending a lot of time	e playing electronic game	s can cause
	a. eye strain	b. back problems	c. both a and b
7	can ca	use your information to be	e leaked, and viruses are
	easily spread.		
	a. Cyberbullies	b. Hackers	c. Friends
8		angers of electronic game	
	a. stealing data	b. cyberbullying	c. headaches
9	One of the psycholog	ical dangers of electronic	games is
	a. eye strain	b. being depressed	c. cyberbullying
10	You should not share	because	others can access your
	address, email, and p	phone number.	
	a. games	b. news	c. personal information

11 Some games promote violence, so this can make some people
12 Playing online games too much can cause strain.
a. eye b. nose c. leg
13 Electronic games may make you anxious and depressed because
a. you feel lonely in the real world
b. you may being bullied online c. both a and b
Put (✓) or (X):
1 Electronic games can be fun, but they impact health. ()
2 Feeling lonely in the real world is one of the dangers of electronic games.
3 You should play a lot of electronic games to fall asleep right away. (
4 Some electronic games can promote aggression in players. ()
5 Ignore the limits that your parents set to prevent unhealthy gaming habits.
()
6 Excessive electronic gaming can lead to headaches. ()
7 It is recommended to play games and chat with people you don't know.
8 Electronic games can make some people anxious and depressed.()
9 Playing games online has no dangers for you.()
10 Multiplayer games can put your security at risk. ()
11 When you face dangers online, you should solve them yourself. ()
12 Electronic games can prevent some players from thinking rationally.
13 Electronic gaming can have a positive impact on your relationships with others. ()
14 Use a webcam to limit the dangers of electronic games. ()
15 You should not use personal information in your usernames and
passwords. ()

Complete the following sentences using the words between the brackets:

(aggressive - Back problems - webcam - Cyberbullies - personal information)

- 1 is one of the security dangers of electronic games.
- 2 Some electronic games promote violence and can make some people
- 3is one of dangers of electronic games because you stay hunched over while playing.
- 4 Don't use a to limit the dangers of electronic games.
- 5 Don't share, such as your name, email, phone number, and address.



Lesson

Protecting Yourself From Digital Theft

- >> It is irresponsible to leave your devices at risk by not taking proper safety precautions.
- >> You have learned about the importance of strong passwords. Let's look at some more ways you can effectively protect your devices from theft.
 - 🤾 من عدم المسئولية أن تَترُك أجهزتك الخاصة مُعرَّضة للخطر بعدم اتخاذ إجراءات الأمان المناسبة.
 - 🧨 لقد تعرَّفت على أهمية كلمات المرور القوية، فلنُلق نظرة على المزيد من طرق حماية أجهزتك من السرقة بشكل فعَّال.

Passwords

>> Passwords with 8+ random letters, numbers and symbols are the most secure.



• كلمات المرور التي تتكوَّن من: ٨ حروف، وأرقام، ورموز عشوائية أو أكثر، هي الأكثر أمانًا.

Multi-factor Authentication (MFA)

- >> MFA requires at least two ways of identifying yourself.
- >>> It is usually through passwords, pins, and security codes or personal questions.
- تتطلُّب المصادقة مُتعدِّدة العوامل طريقتين على الأقل لتحديد هُويَّتك، وعادةً ما يتم ذلك من خلال: كلمات المرور، وأرقام التعريف الشخصية، ورموز الأمان أو الأسئلة الشخصية.



Fingerprint Authentication

>> This type of authentication will scan your finger, usually your thumb, as a way of confirming it's you.

• المصادقة ببصمة الأصابع: هذا النوع من المصادقة سيُجرى مسحًا لإصبعك الإبهام عادةً، كطريقة لتأكيد هُويَّتك.



Digital Safety and Security Precautions

- Facial Recognition
- >>> Facial recognition software will scan your face using your device's camera.
- >> Only your face will allow your device or device's apps to open. • برنامج التعرُّف على الوجه سيُجرى مسحًا لوجهك باستخدام الكاميرا الخاصة بك؛ وبذلك سيسمح لوجهك دون سواه بفتح جهازك أو التطبيقات الموجودة فيه.



5 Full Disk Encryption

>>> Encryption scrambles your information and can only be accessed on your device if you have set a password.

• التشفير يعمل على تشويش معلوماتك، ولا يمكن الوصول إلى المعلومات على جهازك إلا إذا قمت بتعيين كلمة مرور خاصة بك.



6 Lock When Lost

>>> Enabling lock mode on your device will allow you to lock it if you lose it, usually by logging in to your Google or iCloud account.

• سيسمح لك وضع القفل التمكيني على جهازك بقفله إذا فقدته، عادةً عن طريق تسجيل الدخول إلى حساب Google أو iCloud بتعيين كلمة مرور خاصة بك.



Data Protection Law in Egypt

Companies

- >>> Companies are in particular need to protect their websites and their customers' information.
- >> In 2020, Egypt formed the Data Protection Law to protect its citizens.
- >>> Companies must report immediately if they've been victims of data theft, and let their customers know immediately as well.
 - تحتاج الشركات بشكل خاص إلى حماية مواقعها الإلكترونية ومعلومات عملائها.
 - في سنة ٢٠٢٠، أنشأت مصر قانون حماية البيانات الشخصية لحماية مواطنيها.
 - يجب على الشركات الإبلاغ على الفور إذا وقعوا ضحية لسرقة البيانات، وإعلام عملائهم مباشرة أيضًا.

Individuals

- >> Individuals should report data theft too.
- >> If you think your data has been compromised, make sure to tell a parent or trusted adult, they can let the proper authorities know.
- >> You should also tell the family and friends you communicate with online. This way, they won't open any attachments or click on any links that come from your accounts.
- الأفراد عليهم أيضًا الإبلاغ عن سرقة البيانات. إذا شككت بتعرُّض بياناتك للخطر، احرص على إخبار أحد والدّيك أو شخص بالغ موثوق به؛ إذ يمكنهم إبلاغ السلطات المسئولة.
- كما عليك إخبار أُسرتك والأصدقاء الذين تتواصل معهم عبر الإنترنت. وبهذه الطريقة، لن يفتحوا أيَّ مرفقات أو ينقروا على أيِّ روابط تُرسَل من حساباتك الشخصية.









Choose the correct answer:

8		MINISTER OF STATE OF	
1	Strong passwords cont	ain at least	characters.
	a. 4	b . 6	c. 8
2	What does MFA stand	for?	
	a. Multi-function Applic	cation	
	b. Multi-factor Authenti	cation	
	c. Multi-feature Algorith	nm	
3	is a type of aut	hentication that uses y	our fingerprint to confirm
	your identity.	,	
	a. Fingerprint authentic	cation	
	b. Facial recognition		
	c. A password		
4	law requir	es companies to use	strict security standards to
	protect their data.		
	a. Copyright	b. E-marketing	c. Data Protection
5	The process that scram	oles your information o	and makes it unreadable to
	others is called		
	a. decryption	b. compression	c. encryption
6	requires a	t least two ways of ide	entifying yourself.
	a. Multi-factor authentic	cation	
	b. Fingerprint authentic	cation	c. Facial recognition
7	scans your face u	sing your device's cam	era to confirm your identity.
	a. Fingerprint authentic	275 S	,
	b. Facial recognition	c. Full disk encryptic	on

8	is/are a security method that scramble(s) your information and can only be accessed if you enter a password. a. Full disk encryption b. Facial recognition c. Both a and b	ı
9	you lose it. a. Lock when lost b. Facial recognition c. A password	F
10	Facial recognition scans your face using your device's to confirm your identity. a. scanner b. printer c. camera	,
11	Egypt formed law in 2020 to protect its citizens' data. a. Data Security b. Data Protection c. Data Privacy	
	Put (✓) or (X):	-
	Strong passwords contain at least 6 characters. (If you have been exposed to data theft, you should report it. (
3	Full disk encryption allows you to lock your device if you lose it. (
4	Data protection is important for individuals only.	
5	Fingerprint authentication scans your face using the device's camera.	
6	It is irresponsible to leave your devices at risk without protection.	
7	It is not important for companies to protect their data.	
8	Strong passwords contain letters, numbers and special characters. (

Digital Safety and Security Precautions

9	The facial recognition feature allows only your face to unlock your d	levice
	(ic vice
10	Fingerprint authentication allows you to lock your device if it is los	st.
11	Multi-factor authentication (MFA) is not an effective way to	
	protect your accounts. (
12	Egypt established the Data Protection Law to protect its citizens.	
13	If you've been a victim of data theft, there is no need to report	
	the theft.	

Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 Full disk encryption	 a. is a type of authentication that usually scans your thumb to confirm your identity.
2 Multi-factor authentication	b. is a feature that allows you to lock your device remotely if you lose it.
3 Fingerprint authentication	c. requires at least two ways of identifying yourself.
4 Lock when lost	 d. scans your face using your device's camera to confirm your identity.
5 Facial recognition	e. scrambles your information and can only be accessed if you enter a password.
1	3 4 5

Cyber Security

- You have learned a lot about online safety choices and strategies.
 Here is a brief recap.
 - 1 Use safe web browsers, such as Google Chrome.
 - 2 Use anti-virus protection on your devices.
 - **3** Keep your pages **private**, only allow friends and family to view your social media.
 - 4 Do not communicate with people you don't know or who make you feel uncomfortable.
 - **5** Do not share your personal information online.
 - 6 Use strong passwords and change them every three months.
 - 7 Verify that the websites that you frequent are real, safe, and age-appropriate.
 - 8 Verify the information you find to make sure it is accurate.
 - لقد تعلّمت الكثير عن إجراءات الأمان على الإنترنت وإستراتيجياته. فيما يلى مراجعة سريعة:
 - 1 استخدم متصفحات الإنترنت الآمنة مثل جوجل.
 - 2 استخدم برامج الحماية من الفيروسات على أجهزتك.
 - 3 حافظ على خصوصية صفحاتك، اسمح فقط لأصدقائك وأُسرتك برؤية صفحات التواصل الاجتماعي الخاصة بك.
 - لا تتواصل مع الأشخاص الذين لا تعرفهم أو الذين يجعلونك تشعر بعدم الارتياح.
 - 5 لا تشارك معلوماتك الشخصية على الإنترنت.
 - 6 استخدم كلمات مرور قوية وغيِّرها كل ثلاثة أشهر.
 - 7 تأكُّد من أن المواقع التي تتردُّد عليها حقيقية، وآمنة، ومناسبة لعمرك.
 - التحقُّقُ من المعلومات التي تجدها للتأكُّد من دقتها.





Types of Cyber Security Threats

1 Malware

- >> Malware is the greatest cyber security threat.
- Scareware is a type of malware that pretends to be a virus alert.
- Scareware tells you to click on the link to help remove it, but the link is a virus.



- >> Mobile malware can be problematic, and using unsecured Wi-Fi can expose you to malware threats.
- >> Note: No matter how cautious you are, you may still get tricked.

البرمجيات الخبيثة

- تعد البرمجيات الخبيثة أكبر تهديد للأمن السيبراني.
- Scareware هو نوع من البرمجيات الخبيثة التي تتظاهر بأنها تنبيه من الفيروسات.
- Scareware يطلب منك النقر على الرابط للمساعدة في إزالة الفيروس، ولكن الرابط عبارة عن فيروس.
- يمكن أن تكون البرمجيات الخبيثة على الأجهزة المحمولة مشكلة، وقد يؤدي استخدام شبكة Wi-Fi غير آمنة إلى تعريضك لتهديدات البرمجيات الخبيثة.
 - ملحوظة: بغض النظر عن مدى حذرك، ربما ما زلت تتعرَّض للخداع.

2 Spoofing

- Cyber criminals pretended to be a business or a known person, in order to trick you to
 - 1 Provide your information.
 - 2 Click on an unsafe link.
- >> If you click on unsafe links, you are in danger of:
 - 1 Having your information compromised.
 - 2 Money stolen.
 - 3 Viruses are installed on your devices.



>> Examples of spoofing:

- 1 A fake domain pretending to be a business.
- 2 A fake email account that has the name of a trusted service.
- 3 Personal acquaintances of yours.

انتحال صفة شخص أو شركة

- يتظاهر مجرمو الإنترنت بأنهم شركة أو شخص معروف، وذلك لخداعك:
 - 2 للنقر على رابط غير آمن.

🚺 لتقديم معلوماتك.

- إذا نقرت على روابط غير آمنة، فأنت في خطر:
- 3 تثبيت الفيروسات على أجهزتك.

أفراد تعرفهم شخصيًا.

- 🚺 تعرُّض معلوماتك لخطر الاختراق. 🙎 سرقة أموالك.
 - أمثلة على الانتحال:
 - 1 إنشاء نطاق وهمى يتظاهر بأنه شركة تجارية.
- حساب بريد إلكترونى مزيف يحمل اسم خدمة موثوقة.

How to deal with cyber security threats

- >> Stay calm, but take swift action.
- >> Inform your contacts immediately so they can avoid opening anything suspicious, so you can protect your contacts from the same cyber threat.
- >> Use anti-virus to do a sweep of your computer and remove any viruses.
- >>> Confirm your security settings are up-to-date.
- >>> Change all your passwords, your device password, email, social media, etc. even if you have been hacked only on one particular account.
- >>> Report the threat to a trusted adult. They can report it to an internet service provider or get the authorities involved if needed.
- >> Creating a personal online safety plan can prepare you for potential future cyber threats, such as how to protect your personal devices and information from cyber criminals.
 - حافظ على هدوئك، ولكن اتخذ إجراءً سريعًا.
 - أبلغ جهات الاتصال الخاصة بك على الفور حتى يتمكنوا من تجنُّب فتح أي شيء مشبوه؛ حتى تتمكن من حمايتهم من نفس التهديد السيبراني.
 - استخدم برنامج مكافحة الفيروسات لإجراء مسح لجهاز الكمبيوتر الخاص بك وإزالة أي فيروسات.
 - تأكُّد من تحديث إعدادات الأمان الخاصة بك.
 - قم بتغيير جميع كلمات المرور الخاصة بك: كلمة مرور جهازك، والبريد الإلكتروني، ووسائل التواصل الاجتماعي، وما إلى ذلك، حتى لو تم اختراقك على حساب واحد فقط.
 - أبلغ شخصًا بالغًا موثوقًا به بالتهديد، فيمكنه الإبلاغ عن ذلك إلى مزود خدمة الإنترنت، أو إشراك السلطات إذا لزم الأمر.
 - وضع خطة للأمان الشخصي عبر الإنترنت يمكن أن يؤهلك لمواجهة التهديدات السيبرانية المستقبلية المحتملة، مثل كيفية حماية أجهزتك الشخصية ومعلوماتك من مجرمي الإنترنت.

Choose the correct answer:

1	Use a/an to do a sweep of your computer and remove any viruses				
	a. password	b. anti-virus	c. firewall		
2	Verify the information yo	u find to make sure it is			
	a. accurate	b. false	c. untrusted		
3	is a type of mo	alware that pretends to be	a virus alert.		
	a. Virus	b. Firewall	c. Scareware		
4	To be safe online, chang	e your passwords every	months.		
	a. one	b. two	c. three		
5	If you exposed to cyber	security threat, you should	l it.		
	a. ignore	b. accept	c. report		
6	is/are cyber o	criminals pretend to be a	business or a known		
	person to trick you.				
	a. Maleware	b. Hackers	c. Spoofing		
7	To deal with cyber securi	ty threats, stay calm, but t	takeaction.		
	a. slow	b. swift	c. calm		
8	is the greatest	cyber security threat.			
	a. Malware	b. Anti-virus	c. Firewall		
9	A fake domain pretending	g to be a business is an e	xample of		
	a. maleware	b. spoofing	c. virus		
10	Using is impor	tant for cyber security.			
	a. anti-virus	b. strong passwords	c. both a and b		
11	Creating a personal onl	ine plan can prep	pare you for potential		
	future cyber threats.	7			
	a. safety	b. marketing	c. annual		

Put (**✓**) or (**४**):

1 No matter how cautious you are, you may still get tricked.)
2 Spoofing is the greatest cyber security threat. ()
3 Scareware is a type of malware that pretends to be a virus alert. ()
4 It is safe to click on unknown links. ()
5 Scareware tells you to click on the link to remove it, but the link is a viru	JS.
)
6 Unsecured Wi-Fi can expose you to malware threats. ()
7 To be safe online, you should use safe web browsers. ()
8 It is not necessary to report the threats to trusted people. ()
9 You should install anti-virus to protect your device. ()
10 It is safe to communicate with unknown people online.)
11 You should ensure your security settings are up-to-date. ()
12 If your account has been hacked, it is preferable to change the passwo	rd
of this account only.)
Write the scientific term:	
1 The greatest cyber security threat.)
2 A type of malware that pretends to be a virus alert. ()
3 Cyber criminals pretended to be a business or a known person, in ord	er
to trick you.)
4 It is used to do a sweep of your computer and remove any viruses.	

Lesson 5

Copyright and Electronic Financial Trading

Let's review what copyright (intellectual property rights) means!

- >>> Copyright: It includes written, visual, audio, video, and web materials.
- Intellectual property rights: Means the invention, creation or idea of someone that is protected by law from being copied by someone else.
- Creative Commons: It refers to works that have been granted permission to be shared by the creator.
- >>> Works in data libraries, such as the Egyptian Knowledge Bank (EKB) is already approved for use.
- Egypt considers works to be in the public domain if the creator has been deceased for at least 50 years. No creator permission is required.

لنُراجِع تعريف حقوق الطبع والنشر (الحقوق الفكرية)!

- تشمل حقوق الطبع والنشر: المواد المكتوبة والمرئية والسمعية، ومقاطع الفيديو، والمواد من شبكة الإنترنت.
- حقوق الملكية الفكرية: تعني أن أي اختراع أو إبداع أو فكرة لشخص ما تكون محمية بالقانون من أن ينسخها شخص آخر.
 - المشاع الإبداعي: يشير إلى الأعمال التي مُنح مبتكرها الإذن بمشاركتها.
 - الأعمال الموجودة في مكتبات البيانات -مثل بنك المعرفة المصري- سبق أن تمَّت الموافقة على استخدامها.
 - تَعتبر مصر الأعمال مِلْكًا عامًّا إذا كان المؤلِّف متوفيًا منذ ٥٠ عامًا على الأقل، وهذه لا تحتاج إذنًا من المؤلِّف.

The Concept of Electronic Financial Trading

مفهوم التداول المالي الإلكتروني

A Stock Exchange

- >>> It is a market where buyers and sellers deal in units of company stocks.
- >> These stocks are called shares.
 - البورصة: هي سوق يتعامل فيه البائعون والمشترون في وحدات من أسهم الشركة.
 - تُسمى هذه الأسهم حصَصًا.

Copyright and Electronic Financial Trading

- >>> The Egyptian stock exchange allows citizens to invest in any market sector, such as:
 - 1 Food
- Clothing
- 8 Petroleum
- >> Smart investors will research multiple companies before deciding which one to invest in.
- >> They analyze markets to see which companies' stocks go up or down.
- >> They will also be checking to see if the products or services offered are a good fit for them personally.
 - تسمح البورصة المصرية للمواطنين بالاستثمار في أي قطاع من قطاعات السوق، مثل:
 - 2 الملاس. 3 المترول.
- 🕦 الغذاء.
- يبحث المستثمرون الأذكياء عن شركات متعددة قبل تحديد الشركة التي سيقومون بالاستثمار فيها.
 - هم يقومون بتحليل الأسواق لمعرفة أسهم الشركات التي ترتفع أو تنخفض.
- ويقومون أيضًا بالتحقُّق من المنتجات أو الخدمات المقدمة لمعرفة ما إذا كانت مناسبة المدافهم الاستثمارية الشخصية.



A Broker:

- >> Is a person who handles the buying and selling of shares.
- >> In traditional settings, an investor will have a broker.
 - الوسيط: هو الشخص الذي يتولى شراء وبيع الأسهم.
 - في الأوضاع التقليدية، يعتمد المستثمر على وسيط.

E-trading:

- >>> Electronic financial trading (e-trading) has made the process of buying and selling shares more efficient.
- >> It provides the investor with more authority.
- >> With the spread of the internet, electronic trading platforms are now common places.
- >> It allows the investor to make trades on their own through websites or applications.
- >>> While investors can still use a broker, e-trading allows more independence and user-friendly options.
- >>> Robo-advisors: Are online applications that provide financial guidance and services.
- >>> E-trading provides access to many people who otherwise might not be able to invest.
- >>> It is also easier and faster for different companies to trade with one another, no matter where they are located.
 - التداول المالي الإلكتروني جعل عملية بيع وشراء الأسهم أكثر كفاءة.
 - يُوفِّر التداول الإلكتروني للمستثمر المزيد من السُّلطة.
 - مع انتشار الإنترنت، أصبحت منصات التداول الإلكترونية شائعة الآن.
 - يسمح التداول المالي الإلكتروني للمستثمر بإجراء عمليات التداول بنفسه من خلال المواقع الإلكترونية أو التطبيقات.
 - بالرغم من إمكانية المستثمرين استخدام الوسيط، فإن التجارة الإلكترونية تتيح المزيد من الاستقلالية وبدائل سهلة
 - المستشارون الآليون: هي تطبيقات عبر الإنترنت تُوفِّر التوجيه والخدمات المالية.
 - يُوفِّر التداول المالي الإلكتروني فرصة الاستثمار إلى العديد من الأشخاص الذين قد لا يستطيعون الاستثمار.
 - كما أنه من الأسهل والأسرع للشركات المختلفة تنفيذ الصفقات مع بعضها، بغض النظر عن مكان تواجدها.



	Choose the correct ans	swer:	
1	Books whose authors have a. copyrighted		
2	by the creator.		
3	a. Creative Commons Egypt considers works to be deceased for at least	e in the public domain	
	a. 5 years		c. 50 years
4	A/An is a market company stocks.	et where buyers and s	ellers deal in units of
	 a. online shopping 	 stock exchange 	c. supermarket
5	Smart investors t	he company before inv	esting in it.
	a. research	b. buy	c. sell
6	On stock exchanges, stock	s are called	
	a. money	b. shares	c. e-commerce
7	A/An is a person a. investor	who handles the buying b. broker	
8	E-trading has made the p	process of buying and	selling shares more
	a. difficult	b. expensive	c. efficient
9	In traditional settings, an in	vestor will have a	
	a. broker	b. bank teller	c. instructor
10	services.	cations that provide fi	nancial guidance and
	a. Social media platforms	 b. Video games 	c. Robo-advisors
11	efficient.	process of buying and	d selling shares more

b. E-trading

a. E-learning

c. E-commerce

4	2) [Put (✓) or (X):
	1	Copyright only covers written material. ()
	2	Intellectual property rights do protect someone's invention or creation, from being copied by others.
	3	Materials in the Egyptian Knowledge Bank (EKB) need permission for
		use. ()
	4	A stock exchange is a place where people can buy and sell shares of companies.
	5	Creative Commons refers to works that the creator has granted permission to share.
	6	In Egypt, a work enters the public domain 50 years after the creator's death.
	7	The Egyptian stock exchange allows citizens to invest in any market sector.
	8	Smart investors invest in the first company they find without doing any research.
	9	E-trading allows investors more independence. ()
	10	•
	10	Investors should check the products or services offered by a company before investing.

Choose from column (A) what suits it in column (B):

11 The internet helps electronic trading platforms to be common places. (12 Investors do not need to analyze markets before making investments. (

Column (A)	Column (B)	
1 Robo-advisors	 a. made the process of buying and selling shares more efficient. 	
2 E-trading	 b. is a person who handles the buying and selling of shares. c. are online applications that provide financial guidance and services. d. includes written, visual, audio, video, and web material. 	
3 A stock exchange		
4 A broker		
5 Copyright	e. is a market where buyers and sellers deal in units of company stocks.	

Cloud computing

- >>> It is the on-demand storing and accessing of data and programs via remote servers on the internet.
 - الحوسبة السحابية:

هي تقنية متوفرة عند الطلب تُستخدم لتخزين البيانات والبرامج والوصول إليها عبر خوادم بعيدة على الإنترنت.

- >>> Cloud computing enables users to access files and data easily and conveniently from anywhere and at any time.
 - الحوسبة السحابية تُمكِّن المستخدمين من الوصول إلى الملفات والبيانات بسهولة ويُسر من أي مكان وفي أي وقت.

Examples of Cloud Computing

- Microsoft 365
- >>> With its application

One Drive

- Google
- With its application Google

Drive



Remote Servers

- >> Connect users who are not on the local area network (LAN) to access and manage data, files, and applications via the internet.
 - الخوادم البعيدة: تقوم بتمكين المستخدمين غير المتصلين بالشبكة المحلية (LAN) من الوصول إلى البيانات والملفات

والتطبيقات وإدارتها عبر الإنترنت.

The Advantages and Disadvantages of Cloud Computing

Advantages 🗸



- 1 It frees up space on your devices by using cloud storage services.
- 2 It allows you to log in and access your files from multiple devices, as long as you have internet service.
- 3 It provides a backup for your files.
- 4 It provides an extra layer of security by offering password-protected data storage and data encryption.
- 6 It allows you to directly share files with authorized users.

مزايا الحوسية السحابية:

- 🕕 تقوم بتوفير مساحة على أجهزتك عن طريق استخدام خدمات التخزين السحابية.
- 2 تسمح لك بتسجيل الدخول والوصول إلى ملفاتك من أجهزة متعددة، طالما أن لديك خدمة الإنترنت.
 - اتوفر نسخة احتياطية لملفاتك.
- توفر طبقة إضافية من الأمان من خلال خاصية تخزين البيانات المحمية بكلمة مرور وتشفير البيانات.
 - 5 تسمح لك بمشاركة الملفات مباشرة مع المستخدمين المعتمدين.

Disadvantages 🗶

- 1 It requires you to have an internet connection. If you lose your internet connection, you won't be able to access files that are only stored in the cloud.
- 2 Cloud storage is often a fee-based service. If you want to store files, you will need to pay a fee. The more storage you require, the higher the fee you will pay.
- 3 If the cloud service you are using is a victim of a data breach, you may become a victim as well, as your information may be compromised. However, while there is a small risk, cloud services are overall extremely safe and secure.

عيوب الحوسبة السحابية:

- 1 تتطلُّب أن يكون لديك اتصال بالإنترنت. إذا فقدت اتصالك بالإنترنت، فلن تتمكُّن من الوصول إلى الملفات المُخزَّنة فقط في السحابة.
- 🙋 غالبًا ما يكون التخزين السحابي خدمة مقابل رسوم. إذا كنت ترغب في تخزين الملفات، فسوف تحتاج إلى دفع رسوم. وكلما زادت سعة التخزين التي تحتاجها، زادت الرسوم التي ستدفعها.
- 🔞 إذا كانت الخدمة السحابية التي تستخدمها ضحية لاختراق البيانات، فقد تصبح أنت أيضًا ضحية؛ حيث قد تتعرُّض معلوماتك للخطر. ومع ذلك، على الرغم من وجود خطر بسيط، إلا أن الخدمات السحابية آمنة للغاية بشكل عام.



It converts data into a code to prevent unauthorized user تشفر البيانات: تقوم بتحويل البيانات إلى رمز لمنع الوصول غير المصرح به للمستخدم. access.

Data Breach

It occurs when unauthorized parties gain access to confidential data and information.

اختراق البيانات: يحدث عندما تتمكُّن أطراف غير مصرح لها من الوصول إلى البيانات والمعلومات السرية.



The role of cloud computing in storing files

- >> Having a document management system allows you to organize your documents so you can find them easily and quickly.
- >>> Create separate folders for different types of data, like photos, videos, audio files, and documents.
- >>> Separate school and personal information, with one folder for each.
- >> Label folders and subfolders dearly to find what you are looking for easily.
- >>> Consider keeping separate folders depending on the file type, such as videos, photos, audio files, and text documents.

دور الحوسية السحابية في تخزين الملفات

- وجود نظام لإدارة المستندات يتيح لك تنظيم مستنداتك؛ بحيث تستطيع العثور عليها بسهولة وسرعة.
 - أنشئ مجلدات منفصلة لأنواع مختلفة مثل: الصور ومقاطع الفيديو والملفات الصوتية والمستندات.
 - افصل بين المعلومات المدرسية والمعلومات الشخصية، بإنشاء مجلد واحد لكل منهما.
 - قم بتسمية المجلدات والمجلدات الفرعية بوضوح؛ ليسهل العثور على ما تبحث عنه.
- فكر في الاحتفاظ بمجلدات منفصلة حسب نوع الملف، مثل: مقاطع الفيديو والصور والملفات الصوتية والمستندات النصية.

Strong Passwords

- >> Create strong passwords for files and take necessary security measures.
- >>> Be sure to use a strong password for any account you have on a cloud storage platform, including Multi-Factor Authentication (MFA) for additional security.
- All the large and reputable cloud storage services offer MFA.

كلمات المرور القوية

- أنشئ كلمات مرور قوبة للملفات، واتخذ الإجراءات الأمنية اللازمة.
- تأكُّد من استخدام كلمة مرور قوية لأى حساب لديك على منصة التخزين السحابية، بما في ذلك المصادقة متعددة العوامل (MFA) لمزيد من الأمان.
 - جميع خدمات التخزين السحابية الكبيرة وذات السمعة الطيبة تُقدِّم خاصية المصادقة متعددة العوامل (MFA).

Choose the correct answer:

1				
1	via remote servers on the	and storing and accessing	of data and programs	
		b. Data breach	c. cloud computing	
2	Cloud computing provides an extra layer of security by offering			
	a. data compression	b. data encryption	c. data replication	
3	Cloud storage is often a	service.		
	a. free-based	b. fee-based	c. limited-based	
4	connect(s) user	rs who are not on the LAN	to access and manage	
	data, files, and applicat	ions via the internet.		
	a. Remote servers	b. OneDrive	c. Microsoft 365	
5	converts data	into a code to prevent una	uthorized user access.	
	a. Data breach	b. Data theft	c. Data encryption	
6	is/are exampl	e of cloud computing.		
	a. Google Drive	b. OneDrive	c. both a and b	
7	occurs when unauthorized parties gain access to confidential			
	data and information.			
	a. Data breach	b. Data theft	c. Data encryption	
8	provides a ba			
	a. Cloud computing	b. Social media	c. Web browser	
9		s to access files and data	easily from anywhere	
	and at any time.			
		b. Cloud computing		
10		you require, the		
	a. higher	b. lower	c. same	
11		allsafe and sec		
	a. moderate	b. extremely	c. less	

12	Asystem allows you to organize your documents.
	a. database b. document management c. Microsoft
13	All the large and reputable cloud storage services offer
	a. free storageb. unlimited storagec. MFA
	Put (✓) or (X):
	at (V) or (N).
1	You can access files stored in the cloud even without an internet connection. ()
2	Cloud computing is a way to store files and data on a remote server and access them over the internet.
3	
	cloud.
4	Cloud computing provides a backup for your files. ()
5	Cloud storage services are always free. ()
6	Examples of cloud computing include Google Drive, OneDrive, and Google Chrome.
7	Data encryption converts data into code to prevent unauthorized access.
8	Cloud computing does not offer any form of security for your data.(
9	Cloud computing can help protect data from breaches by encrypting data.
10	Despite a small risk, cloud services are overall extremely safe and secure.
11	Cloud computing requires an internet connection. ()
12	A document management system does not help organize your documents.
13	MFA is a security measure that requires users to provide two or more factors of authentication when logging into their accounts.
14	
14	A data breach occurs when authorized parties gain access to confidential data and information.

Choose from column (A) what suits it in column (B):

Column (A) Column (B)		
1 Remote servers	a. it occurs when unauthorized parties gain access to confidential data	
2 Data breach b. is an example on cloud computing		
3 Data encryption c. connect users who are not on LAN to access and manage data, files, and applications via the intern		
4 Microsoft 365	d. is often a fee-based service.	
5 Cloud storage	e. it converts data into a code to prevent unauthorized user access.	
1		

Lesson

Cloud Computing Applications

- >> Cloud computing is storing and accessing data or programs through the internet.
 - تقوم الحوسبة السحابية بتخزين البيانات أو البرامج والوصول إليها عبر الإنترنت.

Microsoft 365 and Google Workspace

- Microsoft 365 and Google Workspace are the most popular software programs that deal with cloud computing applications. Both platforms include productivity apps and storage.
- >> Microsoft 365 offers a whole suite of productivity apps, such as Microsoft Teams, Word, Excel, and PowerPoint.
- Microsoft 365 email platform is Outlook.
- >> Microsoft 365 storage application is One Drive.
- >> In summary, this platform provides everything you need.
- ، يعد Microsoft 365 وGoogle Workspace من أشهر البرامج التي تتعامل مع تطبيقات الحوسبة السحابية، يتضمن كلا النظامين تطبيقات الإنتاحية والتخزين.
- يقدم Microsoft 365 مجموعة كاملة من تطبيقات الإنتاجية مثل: Microsoft Teams و Excel و PowerPoint
 - نظام البريد الإلكتروني الخاص بـ Microsoft 365 هو Outlook.
 - تطبيق التخزين الخاص بـ Microsoft 365 هو OneDrive
 - باختصار، تُوفِّر هذه المنصة كل ما تحتاجه.



Digital Safety and Security Precautions

Microsoft Word

>>> When you select Microsoft Word, it opens up a new blank document that allows you to draft ideas, a story, or an assignment.



• عند اختيار مايكروسوفت وورد، فإنه يفتح مستندًا فارغًا جديدًا يسمح لك بصياغة أفكار أو قصة أو مهمة.

PowerPoint

PowerPoint can help you create a presentation.

• يمكن أن يساعدك تطبيق PowerPoint في إنشاء عرض تقديمي.



OneDrive

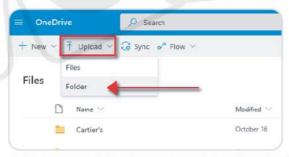
- OneDrive can help you share work with your friends.
- >> OneDrive allows you to store, share, and access files from any device.



- It is very user-friendly.
- >> You upload your files and then click on the Share option to share them with others.
- >> You can decide what level of access each person you share with gets, whether it's for viewing purposes only or editing.
 - يمكن أن يساعدك OneDrive في مشاركة العمل مع أصدقائك.
 - يتيح لك OneDrive تخزين الملفات ومشاركتها والوصول إليها من أي جهاز.
 - إنه سهل الاستخدام للغاية.
 - تقوم بتحميل ملفاتك ثم تضغط على خيار المشاركة؛ لمشاركتها مع الآخرين.
 - يمكنك تحديد مستوى الوصول الذي يحصل عليه كل شخص تشاركه معه، سواء كان ذلك لأغراض العرض فقط أو

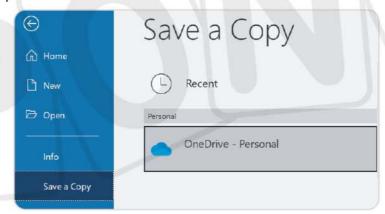
How to upload files or folders to OneDrive

- 1 In Chrome,
 - Sign in the Microsoft Office.
 - Select One Drive.
- Select Upload >> Files ,or Upload >> Folder.
- 3 Select the files or folder you want to upload.
- 4 Select Open or Select Folder.



How to save a file to OneDrive

- 1 Select File >> Save a Copy > OneDrive Personal/Company.
- 2 Select Enter file name here and type a name.
- 3 Select Save.
- 4 You will then see the file in your OneDrive, the next time you open the Office app.

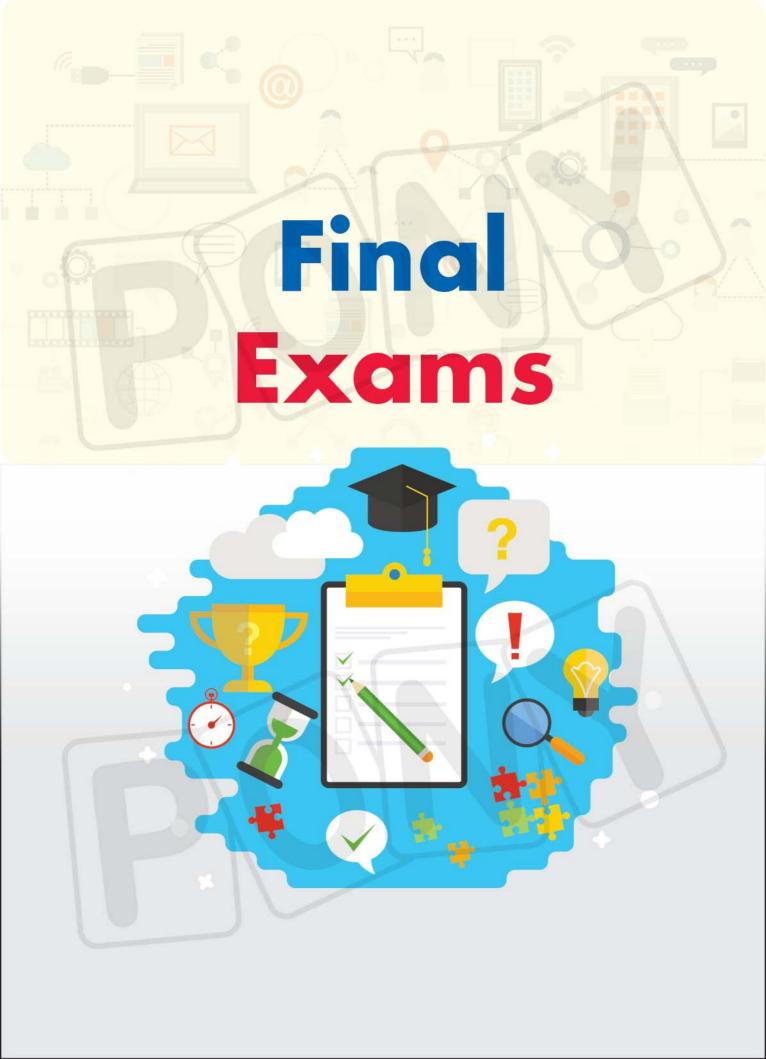


Choose the correct answer:

1	is storing and a	accessing data or program	ns through the internet.
	a. Web hosting	b. Database	c. Cloud computing
2	The email platform of M	icrosoft 365 is	
	a. Gmail	b. Outlook	c. Yahoo
3	is/are the most	popular software that dea	l with cloud computing
	applications.		
	a. Microsoft 365	b. Google Workspace	c. both a and b
4	To save a file to OneDr	ive, open men	u, then select Save a
	Сору.		
	a. File	b. Insert	c. Edit
5	is the Microso	ft 365 storage application	1.
	a. Google Drive	b. OneDrive	c. Outlook
6	You can use OneDrive to	o upload	
	a. files	b. folders	c. both a and b
7	After uploading your file	es on OneDrive, you can	click on the
	option to share a file wit	h your friends.	
	a. Share	b. Open	c. Insert
8	The Microsoft 365 suite	includes	
	a. MS Word	b. Microsoft Teams	c. both a and b
9	When you select Micros	oft Word, it opens	·······••
	a. new browser	b. blank document	c. online storage
10	is a Microsoft p	program that can help you	create a presentation.
	a. PowerPoint	b. Word	c. OneDrive

Cloud Computing Applications

11	your friends.	program that can help yo	ou share your work with
	a. Word	b. PowerPoint	c. OneDrive
12	To upload a file or folder	on OneDrive, you should	first Microsoft
	office.		
	a. download	b. sign in	c. share
Þ	Put (✓) or (X):		
1	OneDrive allows you to	store, share, and access	files from any device.
			()
2	OneDrive is complicated	and difficult to use.	()
3	To access OneDrive, use	rs must have a Microsoft	account. ()
4	Microsoft Word is used	to create presentations.	()
5	5 Cloud computing is storing and accessing data through the internet.		
			()
6	OneDrive is a Google V	Vorkspace storage applic	cation. ()
7	7 Microsoft 365 and Google Workspace do not include productivity apps		
			()
8	Gmail is the email platfo	rm for Microsoft 365.	()
9	Microsoft 365 provides	everything you need.	()
10	Google Workspace is	not popular software	that deals with cloud
	computing.		()
11	To upload files or folders	s to OneDrive, you need	to sign in to Microsoft
	Office first.		
12	You can set each person	n's access level for shari	ng, either view-only or
	with editing rights.		()
13	Using the Word program	ı, you can draft ideas, a s	tory, or an assignment.
			7 1



🔖 Model Exam 🚺 📏

Choose the correct answer:			
1 On stock excha	On stock exchanges, stocks are called		
a. money	b. shares	c. e-commerce	
2is the	on-demand storing and acc	essing of data and programs	
via remote serve	ers on the internet.		
 a. Data encrypt 	ion b. Data breach	c. Cloud computing	
Augmented real world.	lity shows a mod	lel of what looks like the real	
a. 2-D	b. 3-D	c. invisible	
4 All of the follow	ing are operating systems,	except	
a. Android	b. Linux	c. the CPU	
5 The	tag is used to create the larg	gest heading in HTML.	
a. <h1></h1>	b. <h6></h6>	c. <l1></l1>	
Put (√) or (x):			
1 Good digital cit	1 Good digital citizens post others' ideas as their own. ()		
2 Programs that c	2 Programs that convert speech to text and vice versa are a type of		
	assistive technology.		
	ail platform for Microsoft 36	65.	
	describes how people use o		
	ry to report the threats to tru		
Choose from	column (A) what suits i	t in column (B):	
Column (A)	Colum	mn (B)	
1 Data encryption	a. connects the computer to	o the internet.	
2 Screen readers	b. a network device that po	ass data to a specific device.	
3 A switch			
access.			
4 Spoofing		to be a business or a known	
	person to trick you.		
5 A router	e. help blind people by co	nverting text to audio.	
1 2	3	5	

Model Exam 2

	Choose the co	orrect answer:	
1 Passwords that contain at least 8 characters are			s are
	a. useless	b. less secure	c. more secure
	2 conr	nect(s) users who are not	on the LAN to access and
	manage data, fi	iles, and applications via th	e internet.
	a. Remote serve	ers b. OneDrive	c. Microsoft 365
	3 If the product is will be		er needs, the user experience
	a. positive	b. negative	c. neutral
	4 You can use the	shortcut to copy	y text or image in windows.
	a. "Ctrl + c"	b. "Cmd + c"	c. "Ctrl + x"
	5 refer	rs to works that have bee	n granted permission to be
	shared by the ci		
	a. Creative Con	nmons b. Public domain	c. Copyright
4	Put (✓) or (४):		
	1 Spoofing is the	greatest cyber security three	at. ()
	2 Microsoft Word	is used to create presentati	ions. ()
	3 The Uber app use	es artificial intelligence to mate	ch riders with available
	drivers.		
	4 Anyone can rea	d and modify the code in c	losed-source software. (
	5 Electronic game	es can be fun, but they impo	act health. ()
4	Complete the f	ollowing using the word	ds between the brackets:
			being depressed - sleep cycle)
			ate their signs in real time to
spoken or text output.			
		ic games too much can affe	ect your
	, ,	example of cloud computin	
		hological dangers of electro	
		ow to use the product and in	•

🔖 Model Exam 🤇 🔊

Choose the correct answer:			
 If you've been hack 	ed on your Instagram account, it	is better to change	
a. Instagram pass	word b. all accounts pas	sswords	
c. none of them			
2 is an o	pen-source software for buildi	ng robot applications.	
a. iOS	b. ROS	c. Android	
3confirm	ns your identity by scanning y	our thumb.	
a. Fingerprint autl	nentication <mark>b.</mark> Facial recognition	on c. A password	
4 occurs	when unauthorized parties go	in access to confidential	
data and informat	tion		
a. Data breach	b. Data theft	c. Data encryption	
5 A fake domain pr	etending to be a business is a	n example of	
a. malware	b. spoofing	c. virus	
Put (✓) or (✗):			
1 HTML tags have the	HTML tags have three main parts ()		
2 The EKB is an exa	ımple of a general search eng	ine. ()	
3 Computers can lea	arn by analyzing the provided	l examples. ()	
4 OneDrive is comp	licated and difficult to use.		
5 Copyright only co	vers written material.	()	
Choose from co	lumn (A) what suits it in	column (B):	
Column (A) Column (B) Cloud storage Covers only one subject, such as business			
2 Creative Commons			
3 Subject database	ying and selling of shares.		
4 A broker	on to share their works.		
5 Copyright law e. is often a fee-based service.			
1 2	3 4	5	

🔖 Model Exam 🔼 📐

4		Choose the correct an	swer:	
	1	runs a compute	er's software and hardwa	are.
		a. Operating system	b. The CPU	c. Hardware
	2	converts data in	to code to prevent unaut	horized user access.
1		a. Data breach	b. Data theft	c. Data encryption
3 combines the real world with a virtue			ual world by adding	
		images using computers.		
		a. Augmented reality	. Artificial intelligence	c. Virtual reality
	4	A poem written in 1900 is	s	
		a. copyrighted	o. not copyrighted	c. both a and b
	5	Wired networks connect of	levices using	
		a. Wi-Fi	. radio waves	c. cables
6		Put (✓) or (X):		
	1	It is important to balance l	between online and offlir	ne activities. ()
	2			
	3	If you are a victim of data	theft, there is no need to	report the theft. ()
	4	The Egyptian stock exchang	ge allows citizens to inve	st in any market
		sector.		
	5	Scareware tells you to click	on the link to remove it,	but the link is
		a virus.		()
4		Complete the following	using the words betv	veen the brackets:
		(Robo-advisors - <h1> -</h1>		
	1	occurs when unauth	norized parties gain acces	ss to confidential data.
	2			
	3			
	4		100 S	
	5			

🔖 Model Exam 🤼 5

	Choose the correct answer:					
1	1is a virtual 3-D environment that allows users to explore and					
	interact with the surrounding	ngs, as if it were reality.				
	a. Virtual reality	b. Artificial intelligenc	e			
	c. Augmented Reality					
2	scans your face using					
	a. Fingerprint authentication					
3			550 520			
	a. Android	b. iOS	c. macOS			
4						
	a. Google Drive	b. OneDrive	c. Outlook			
5	, , , , , , , , , , , , , , , , , , , ,	(A)	es/			
	a. ignore	•	c. report			
6		2				
	a. <bold></bold>	b. <s></s>	c. 			
7		re buyers and sellers dea	I in units of company			
	stocks.	b Staak avalamma	Consequentes			
	a. Online shopping	b. Stock exchange	c. Supermarket			
	Put (✓) or (X):					
1	Cloud storage services are	always free.	()			
2	Routers work as gateways	that connect your device	to ISP. ()			
3	It is responsible to leave yo	our devices at risk withou	t protection. ()			
4	Electronic games can make	e some people anxious a	nd depressed. ()			
5	5 Copyright includes only books, music, and videos. ()					
6	In HTML, the <i> tag is use</i>	ed to display text in italic	s. ()			
7	Linux is the most popular o	perating system all over	the world. ()			
8	Switches are used to conn	ect computers to the ISP.	()			

Nodel Exam 6

í	Choose the correct a	nswer:	
1	1 is the greates	t cyber security threat.	
	a. Malware	. Anti-virus	c. Firewall
	Sharing your friend's pl behavior.	hotos without their peri	mission is
	a. responsible	. irresponsible	c. safe
	3 To upload a file or folder office.	on OneDrive, you shoul	d first Microsoft
	a. download	o, sign in	c. share
	4 The following HTML tags	are correct, except	
	a. <a> b	**	
	5 a virtual 3D e	environment for users to	explore and interact as
	if it were reality.		
	a. Virtual reality	. Artificial intelligence	c. Assistive technology
G	? Put (√) or (×):		
	 Egypt established the Do The ability of the comput Examples of cloud comp 	ter to think and learn is	called AR. ()
	and Google Chrome.		
	4 E-trading allows more in	dependence for investor	rs. ()
	5 There is no difference be	etween augmented reali	ty and virtual
	reality.		
4	3 Complete the following	a using the words be	tween the brackets:
1	(MFA - Stock exchange - a		
	1 connect device		
	2 Some electronic games		
	3 requires at le	ast two ways of identify	ing yourself.
	4 connect users	· · · · · · · · · · · · · · · · · · ·	~ .
	data, files, and applicati	2 A2 1744 V2	access and manage
	5is a market wh		deal in units of company
	atacks		,

Model Exam 7

	Choose the correct a	answer:	
1		ople or things that are co	
		b. Networks	
2	•	ipps that perform complex	tasks that simulate the
		ce of the human element.	
	a. Artificial intelligence	b. Augmented reality	c. Remote sensors
3		vice or product is called	
	a. assistive	b. cutting-edge	c. virtual
4	is a closed-so	ource operating system for	mobile devices.
	a. Android	b. Apple iOS	c. Windows
5	VR headset blocks out t	heworld(s) an	d provides views that
	immerse the user in ano	ther world.	
	a. real	b. virtual	c. both of them
6	is a cloud storage p	rovided by Microsoft for ac	cessing files anywhere.
	a. Collections	b. Favorites bar	c. OneDrive
7		icrosoft 365 is	
	a. Gmail	b. Outlook	c. Yahoo
8	empower deaf peop	ole to translate their signs to	spoken or text output.
	a. Hearing aids	 Screen reader 	c. Smartgloves
9	Large gaming communit	ies are filled with	
	a. cyberbullies	b. doctors	c. both a and b
10	To create the smallest he	eading in HTML, use the	tag.
	a. <h1></h1>	b. <h6></h6>	c. <\$1>
11	software med	ins that it can't be seen or c	changed by the public.
	a. Open-source	b. Closed-source	c. Both of them
12	Egypt considers works	in the public domain af	ter of the
	creator's death.		
	a. 5 years	b. 50 months	c. 50 years.
13	database co	vers only one subject, such	n as business or law.
	a. General	b. Subject	c. Electronic
14	Complicated and hard-to	o-use products result in	user experiences.
	a. positive	b. negative	c. neutral
15	Visually impaired people	can use to see their far	mily members up close.

b. artificial intelligence

a. augmented Reality

c. hearing aids

Nodel Exam 8

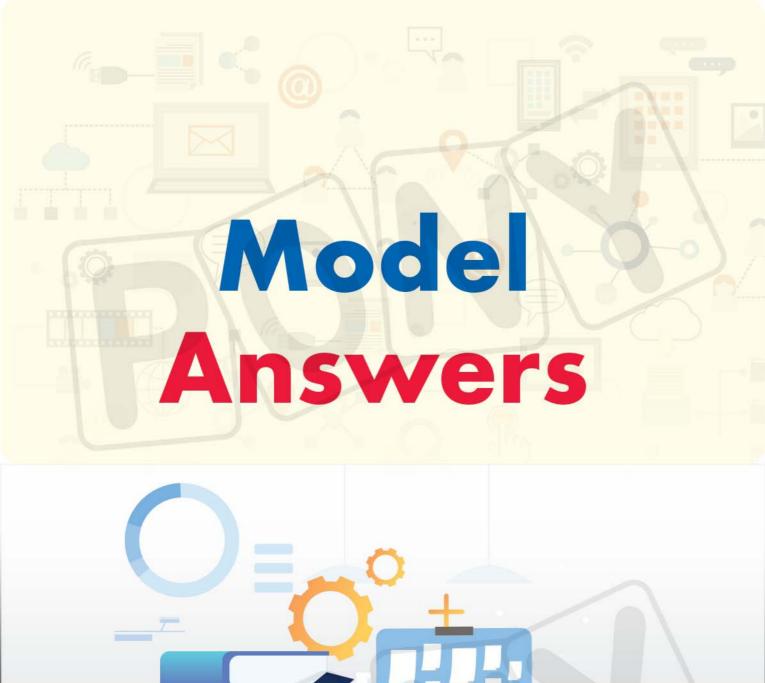
	Total Lagrange				
	Choose the corr	ect answer:			
Ì	 Word prediction o 	n smartphones is an example of			
	a. artificial intelligence b. augmented reality c. virtual reality				
	2is a Mi	crosoft application that can help you share works with			
4	your friends.				
	a. Word	b. PowerPoint c. OneDrive			
		eos, or infographics of someone, you should			
		er b. share them without permission			
	c. ask for permissi				
		vice that connects a local area network (LAN) to the			
	internet.				
1		ence b. A modem c. A server			
		e the process of buying and selling shares more			
	a. difficult	b. expensive c. efficient			
2	Put (√) or (×):				
	1 You should use we	ak passwords to protect your data ()			
		s are now common places. ()			
		s, a screen reader stops after every element. ()			
		virtual 2-D environment that allows users to			
	The second secon	ct with the surroundings. ()			
		rating system used by 90% of the world's			
	computers.	lumn (A) what suits it is solumn (B):			
3	Choose from co	lumn (A) what suits it in column (B):			
	Column (A)	Column (B)			
	1 MFA	a. it is used to make text bold in HTML.			
	2 	b. stands for Hyper Text Markup Language.			
	3 VR headset	c. requires at least two ways of identifying yourself.			
	4 HTML	d. is an operating system for Apple computers.			
	5 macOS	e. is used to experience virtual reality.			
	1 2	3 4 5			

Nodel Exam 9

Choose the correct answer:					
1runs a computer software and hardware.					
a. Windows explorer b. Operating system c. CPU					
2 converts the digital text into audio to help blind people.					
a. Brille terminal b. Screen reader c. Screen magnifier					
3 To make the images accessible on web pages, add to 					
in HTML.					
a. alt-text b. meta c. title					
4scrambles your data and requires a password to access it.					
a. Full disk encryption b. Facial recognition c. Both a and b					
5can imitate sounds when provided with the tone of voice of					
an actual human being.					
 a. Augmented reality b. Artificial intelligence c. Switches 					
Put (✓) or (X):					
1 You should play a lot of electronic games to fall asleep right away. (
2 OneDrive is a Google Workspace storage application. ()					
3 The internet helps electronic trading platforms to be common places. (
4 You can access files stored in the cloud even without an internet connection.					
5 Strong passwords contain letters, numbers, and special characters. (
Complete the following using the words between the brackets:					
(ROS - Facial recognition - E-trading - MFA - Programming languages)					
1 made the process of buying and selling shares more efficient.					
2is an open source operating system that is used for building					
robot applications.					
3 are instructions to a computer are given in code.					
4scans your face using your device's camera to confirm your					
identity.					
5 stands for Multi-factor Authentication.					

Model Exam 10

Í	9	Choose the correct a	nswer:				
	1	are collection	s of information stored in	a computer system.			
		a. Search results	b. Databases	c. Software			
	2	A cardboard VR headset	is a/anway	to experience VR on a			
		smartphone.					
		a. expensive	b. inexpensive	c. difficult			
	3	The HTML tag that is use	ed to create a paragraph	is			
		a. <h></h>	b. <a>	c.			
	4	networks con	nect devices using Wi-Fi.				
		a. Wired	b. Wireless	c. Both of them			
1	5	The most popular operat	ing system for mobile wor	ldwide is			
		a. Windows	b. Android	c. Apple iOS			
6	1	Put (✓) or (X):					
	1	Creative commons mean	s the creator has been de	eceased for at			
		least 50 years.					
	2	You can press "Ctrl + c"	to cut text or an image in	Windows. ()			
	3	Virtual reality allows you	to explore world museum	ns from home. ()			
	4	Artificial intelligence (AI)	, augmented reality (AR),	and virtual reality			
		(VR) are examples of cut	ting-edge technology.	()			
	5	General databases provi	ide information on a spec	ific topic. ()			
(Complete the following	g using the words bet	ween the brackets:			
	(Smartgloves - Wireless n	etwork - Assistive techno	logy - <a> - modem)			
	1	1helps people of determination in their daily works					
	2	is a tag that i	s used to create a hyperli	nk in HTML.			
	3	connect device	es without wiring by usin	g Wi-Fi.			
	4	translate sign	language to spoken or te	ext output.			
	5	A					





Model Answers

13 C

Theme 1

Lesson 1

1 c 2 b 3 a 4 b 7 b 5 b 6 C 8 C 9 b 12 b 10 a 11 a

14 b

- 2 1 2 / 3 X 4 X 5 / 61 71 8 / 91 10 ✓ 11 X 12 1 13 /
- 3 1 Artificial Intelligence
 - 2 Bemyeyes.com 3 graph 4 screen reader 5 I-Stem

Lesson 2

- 1 b 2 a 3 C 4 b 6 b 5 C 7 c 8 a 10 b 9 a
- 2 1 V 2 X 3 X 4 X 5 1 61 7 1 8 X 10 / 9 / 11 / 12 /
- Wired 2 specific 3 Router 4 intelligent 5 Al
- 4 1 d 4 b 3 e 2 a 5 C

Theme 2

Lesson 1

- 1 a 2 b 3 a 4 C 5 b 6 a 7 a 8 b 9 C 10 a 11 b 12 a 13 b 14 C 16 a 15 C 2 1 / 2 X 3 / 4 X
- 5 V 6 1 7 / 8 X
 - 9 X 10 1 11 X 12 X

- 15 ✓ 16 / 13 X 14 / 17 /
- 3 1 Explorer 2 citations 3 Remote sensors 4 Radars 5 machine learning

Lesson 2

- 1 c 2 a 3 b 4 a 6 C 7 b 8 C 5 a 9 b 11 b 10 C 12 a 13 C
- **2** 1 **/** 2 / 3 X 4 1 5 X 6 1 7 X 8 / 9 X 10 / 12 / 11 X 13 X 14 X 15 ✓
- 3 1 Cyberbullies 2 aggressive 3 Back problems 4 webcam
 - 5 personal information

Lesson 3

- 1 c 2 b 3 a 4 a 7 b 5 C 6 a 8 a
- 9 a 10 c 11 b
- 2 1 X 2 / 3 X 4 X 5 X 6 1 7 X 8 / 12 /
 - 91 10 X 11 X 13 X
- 2 C 4 b 1 e 3 a 5 d

Lesson 4

- 1 b 2 a 4 C 3 C 7 b 5 C 6 C 8 a 9 b 10 C 11 a
- **2** 1 🗸 2 X 3 / 4 X 5 / 6 1 7 1 8 X 91 10 X 11 / 12 X

- Malware
- 2 Scareware
- 3 Spoofing
- 4 Anti-virus

Lesson 5

- 1 b 2 a
 - 3 C
 - 6 b 5 a
- 7 b
- 9 a 10 C
- 11 b
- 2 1 X
- 3 X
- 4 /

4 b

8 C

5 / 61

2 /

- 71 8 X
- 91 10 /
- 12 X 11 /
- 2 a 3 1 c

- 4 b 3 e
- 5 d

Lesson 6

- 1 c
- 2 b
- 3 b
- 4 a

- 5 C
- 6 C
- 7 a
- 8 a

- 9 b
- 10 a
- 11 b
- 12 b

- 13 C
- 2 1 X
- 2 /
- 3 /
- 4 1

- 5 X
- 6 X
- 7 1
- 8 X

- 91
- 10 /
- 11 /
- 12 X

- 13 🗸 14 X
- **3** 1 c 2 a
- 3 e
- 4 b

5 d

Lesson 7

- 1 c 2 b
- 3 C
 - 4 a
- 5 b 6 C
- 7 a
- 8 C
- 9 b 10 a
- 11 c
- 12 b
- 1 1 2 X
- 3 /
- 4 X
- 5 / 6 X
- 7 X
- 8 X

- 9 1 10 X
- 11 /
- 12 🗸

13 🗸

Final Exams

Model Exam

- 1 b
 - 2 C
- 3 b
- 4 C

- 5 a
- 2 1 X
- 2 /
- 3 X
- 4 /

- 5 X
- 1 c
- 2 e
- 3 b
- 4 d

5 a

Model Exam 2

- 1 c
- 2 a
- 3 a
- 4 a

- 5 a
- 2 1 X
- 2 X
- 3 /
- 4 X

- 5 1
- 3 1 Smartgloves
 - 2 sleep cycle
 - 3 Microsoft 365
 - 4 being depressed
 - 5 User experience

Model Exam 3

- 1 b
- 2 b
- 3 a
- 4 a

- 5 b
- **2** 1 **/**
- 2 X
- 3 /
- 4 X

- 5 X
- (3) 1 e 2 d
- 3 a
- 4 C

Model Answers

Model Exam 4

- 1 1 a 2 c 3 c
 - 5 c
- 1 \(\) 2 \(\) 3 \(\) 4 \(\)
- 3 1 Data breach
 - 2 <h1>
 - 3 Scareware
 - 4 Robo-advisors
- 5 eye strain

4 b

Model Exam 5

- 1 a 2 b 3 a 4 b
- 5 c 6 c 7 b
- 2 1 X 2 \ 3 X 4 \ \ 5 X 6 \ 7 X 8 X

Model Exam 6

- 1 1 a 2 b 3 b 4 c
- ② 1 ✓ 2 X 3 X 4 ✓ 5 X
- 3 1 Wired networks 2 aggressive
 - з МҒА
 - 4 Remote servers
 - 5 Stock exchange

Model Exam 7

4 b

- 1 b 2 a 3 b
 - 5 a 6 c 7 b 8 c 9 a 10 b 11 b 12 c
 - 13 b 14 b 15 a

Model Exam 8

- 1 a 2 c 3 c 4 b
- 2 1 X 2 \ 3 X 4 X 5 X
- 3 1 c 2 a 3 e 4 b

Model Exam 9

- 1 b 2 b 3 a 4 a
 - 5 b
- 3 1 E-trading 2 ROS
 - 3 Programming languages
 - 4 Facial recognition
 - 5 MFA

Model Exam 10

- 1 b 2 b 3 c 4 b 5 b
- 1 X 2 X 3 \ 4 \ \
 5 X
- 1 Assistive technology2 <a> 3 Wireless networks
 - 4 Smartgloves 5 modem

Glossary

Theme 1

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Artificial intelligence	الذكاء الصناعي	People of determination	ذوو الهمم
Interaction	تفاعل	Expert	خبير
Blind people	مكفوفو <i>ن</i>	Platform	منصة
Mentorship	توجيه وإرشاد	Convert	يحول
Organization	منظمة	Employees	موظفون
Opportunities	فرص .	Integrate	دمج
Voice recognition	التعرُّف على الصوت	Launch	يُطلق
Hearing-impaired	ضعاف السمع	Assist	يساعد - مساعدة
Volunteers	متطوعون	Realistic	حقيقي - واقعي

Lesson (2)

Internet Service Provider (ISP)	مزود خدمة الإنترنت	Human element	عنصر بشري
Specific device	جهاز محدد	Signal	إشارة
Wired networks	شبكات سلكية	Common	شائع أو مشترك
Wireless networks	شبكات لاسلكية	Purpose	غرض
Comprehensive	شامل	Complex	معقد
Sequence	تسلسل	Simulate	يحاكي
Machine	آلة	Imitate	يقلد

Lesson (3)

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Immerse	ينغمس	Augmented reality	الواقع المعزز
Surrounding	البيئة المحيطة	Virtual reality	الواقع التخيلي (الافتراضي)
Headset	سماعة الرأس	Interact	يتفاعل
To experience VR	لتجربة VR	Combine	يجمع
Participant	مشارك	Surface	سطح
Cylinder	أسطوانة	Cube	مكعب
Flat	مسطح أو مستو	Ability	قدرة
Predict	يتوقع	Assistant	مساعد
Futuristic Technology	التكنولوجيا المستقبلية	Deduce	يستنتج
Facial recognition	التعرُّف على الوجه		

Glossary

Lesson	IA
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Cutting Edge technology	تكنولوجيا حديثة متطورة	Unimaginable	لا يمكن تخيلها
Service		Empower	يمكن
Product	منتج	Inclusion	اندماج
Deaf	ضعيف السمع	Education	تعليم
Signs	إشارات	Incredibly varied	تتنوع كثيرًا
Assistive technology	التكنولوجيا المساعدة	Categories	فئات
Desirable	مرغوب فيه	Accessible	سهل الوصول إليه
Valuable product	منتج ذو قيمة	Credible	جدير بالثقة
Trustworthy	جدير بالثقة	Usable	قابلة للاستخدام
Findable	قابلية إيجاد حل	Independence	استقلالية
Improve	يحسن - يطور	Development	تطوير

Lesson (5)

Skills	مهارات	Phrases	عبارات
Newspapers	صحف	Online libraries	مكتبات إلكترونية
User-friendly	سهلة الاستخدام	Magazines	مجلات
Evaluation	تقييم	Collection	مجموعة
Published books	كتب منشورة	Heading	عنوان
Library Catalog	فهرس المكتبة	E-books	كتب إلكترونية

Lesson (6)

Screen resolution	دقة الشاشة	Handheld	محمولة
Landscape	أفقي	Touch	اللمس
Portrait	رأسي	Associated with	مرتبط بـ
Decrease	يقلل	Healthcare	رعاية صحية
Access	يصل إلى	Non-verbal	غير لفظي
Challenges	تحديات	Employment	توظيف

Lesson (7)

Screen magnifiers	مكبرات الشاشة	Include	يتضمَّن
Pre-loaded	مُحملة مسبقًا	Perform	يؤدي
The most popular	الأكثر شهرة	Open-source	مفتوح المصدر
Individual	فرد – فرد <i>ي</i>	Major	رئيسي
Self-driving cars	سيارات ذاتية القيادة	Robot applications	تطبيقات الروبوت
Similarities	التشابهات	Creators	مبدعون
Compatible	متوافق	Machine	آلة

Lesson (8)

HTML	لغة ترميز النص الشعبي	Content	محتوى
Structure	التركيب	Series	سلسلة
Paragraph	فقرة	Elements	عناصر
Subheading	عنوان فرعي	Hyperlink	رابط
Accessibility features	مزايا الوصول	Distinguish	يميز
Catch attention	يجذب الانتباه	Alt-text	النص البديل

Theme 2

Lesson (1)

Archaeology	علم الآثار	Societies	المجتمعات
Geospatial technologies	تقنيات الجغرافيا المكانية	Remote sensing	الاستشعار عن بُعد
Consultant	مستشار	Back up	نسخ احتياطية
Published	منشورة	Simulated	يحاكي
Machine learning	تعلم الآلة	Discoveries	اكتشافات
Excavate	ينقب أو يحفر	Settlements	مستوطنات
Protect	يحمي	Heritage	تراث
Monitor	يراقب	Vehicle	سيارة - مركبة

Lesson (2)

Electronic games	الألعاب الإلكترونية	Creative thinking	التفكير الإبداعي
Encourage	يشجع	Critical thinking	التفكير النقدي
Sleep cycle	دورة النوم	Impact	تأثير
Promote	يعزز	Develop	يطور
Stimulate	يحفز	Prevent	يحمي
Affect	يؤثر	Security	أمان - حماية
Weight gaining	زيادة الوزن	Leak	تسريب
Cyberbullies	المتنمرون عبر الإنترنت	Multiplayers	عدة لاعبين
Stranger	غريب	Anxious	قلق
Hunched	منحني	Depressed	مكتئب
Eye strain	إرهاق العين	Negatively	سلبيًا
Rationally	بعقلانية	Leaked	تسريب
Limits	حدود	Discussions	مناقشات
Encounter	يواجه أو يقابل	Maintaining	المحافظة
Supervision	إشراف		

Lesson (3)

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Random	عشوائي	Security codes	رموز الأمان
Identifying yourself	تحديد هويتك	Safety precautions	احتياطات السلامة
Strict	صارم	Data Protection	حماية البيانات
Victims	ضحايا	Law	قانون
Compromised	تعرّض لخطر الاختراق	Proper authorities	السلطات المسئولة
Immediately	فورًا	Data theft	سرقة البيانات

Glossary

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Lesson	

Appropriate	مناسب	Frequently	بصورة متكررة
Precautions	احتياطات	Accurate	دقيق
Verify	يتحقق	Threats	تهدیدات
Problematic	إشكالية - مشكلة	Cautious	حذر
Get tricked	يُخدع	Remove	يزيل
Link	رابط	Fake	مزيف
Criminals	مجرمون	Swift action	إجراءات سريعة
Acquaintance of yours	معارفك	Suspicious	مثير للشك

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Creative commons	المشاع الإبداعي	Granted permission	منح الإذن
Creator	مبتكر	Public	عام
Buyer	مشتر	Market sector	قطاع السوق
Seller	بائع	Virtual market	سوق افتراضي
Company stocks	أسهم الشركة	Investor	مستثمر
Options	بدائل – خيارات	Traditional settings	البيئات التقليدية
User-friendly	سهل الاستخدام	Trades	صفقات
Independence	استقلالية	Guidance	توجيه
Authority	سلطة	Efficient	كفء
Broker	وسيط		

Lesson (6)

Remote servers	الخوادم البعيدة	On-demand	عند الطلب
Manage	يدير	Platforms	منصات
Space	مساحة	Layer	طبقة
Compromised	معرضة لخطر الاختراق	Storage	تخزين
Data breach	اختراق البيانات	Multiple	متعدد
Free up	يُخلي	Fee-based service	خدمة مدفوعة الأجر
Occur	يحدث	Separate	منفصل
Authorized users	مستخدمون مصرح بهم	Organize	ينظم
Reputable	سمعة طيبة		

Lesson (7)

Email platform	منصة البريد الإلكتروني	Productivity	إنتاجية
Whole suite	مجموعة كاملة	Allow	يسمح
Draft	مسودة	Assignment	تكليف
Option	اختيار		